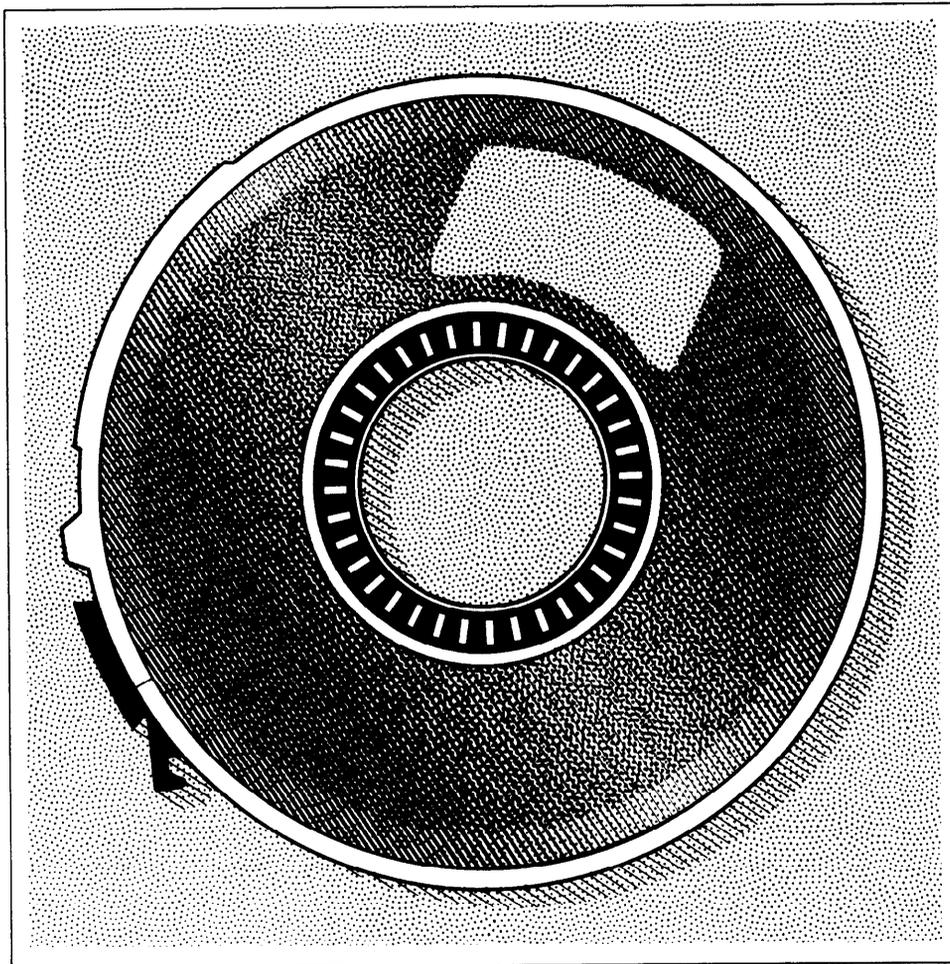


Public Use Data Tape Documentation

Physician's Examination
Tape Number 5302

National Health and Nutrition Examination Survey, 1976-80



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
National Center for Health Statistics

Hyattsville, Maryland
October 1986

PHYSICIAN'S EXAMINATION

SECOND NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY, 1976-80
NHANES II

Documentation for Public Use Data Tape

Catalog Number 5302

Physician's Examination, Ages 6 Months - 74 Years

This data tape contains demographic and physician's examination data for persons 6 months through 74 years of age examined in the second National Health and Nutrition Examination Survey (NHANES II), conducted in 1976-1980 by the National Center for Health Statistics, U.S. Public Health Service.

Peter Gergen, Arnold Engel, Mary Dudley and Wilbur Hadden of the Division of Health Examination Statistics (DHES) were responsible for the data compilation and technical review necessary to assemble this tape and construct the documentation. Richard Orli, Joyce Lewis, and Linda Graham of Computer Based Systems, Inc. provided computer programming and data editing assistance.

NCHS PUBLIC USE TAPES

Public use data tapes from the National Center for Health Statistics (NCHS) for all NHANES II components will be released as soon as the data have been compiled and documented. NHANES II data tapes are available for purchase from:

National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, Virginia 22161

(703) 487-4650

A list of NCHS public use data tapes that can be purchased from NTIS can be obtained from:

Scientific and Technical Information Branch
National Center for Health Statistics
Center Building, Room 1-57
3700 East-West Highway
Hyattsville, Maryland 20782

(301) 436-8500

USE OF NCHS DATA TAPES

The National Center for Health Statistics requests the cooperation of recipients of data tapes in certain actions related to their use.

Any publication based on the data should acknowledge NCHS as the original source. It should include a disclaimer which credits the authors for any analyses, interpretations, or conclusions, and not NCHS, which is responsible only for the data.

Users who wish to publish a technical description of the data should make a reasonable effort to insure that the description is consistent with that published by NCHS. This does not mean, however, that NCHS will review such descriptions.

NCHS would appreciate receiving reprints of journal articles or other publications based upon findings from the NHANES II survey. Please send them to the address below.

The data tapes have been carefully edited. Some of the continuous data items have extremely high or low values. It has been verified that the values appear that way on the original interview documents; that is, it has been verified that the values have not resulted from incorrect keypunching. Within each data tape numerous consistency checks have been performed. However, due to the large volume of data collected in the survey, it is likely that a small number of errors or discrepancies remain undetected. NCHS would like to be informed if any such errors are detected so that errata sheets can be issued to previous purchasers and corrections made to a new data tape, if appropriate. Please contact:

Division of Health Examination Statistics
National Center for Health Statistics
Center Building, Room 2-58
3700 East-West Highway
Hyattsville, Maryland 20782
(301) 436-7068

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i. NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES II)

A. HISTORY AND SCOPE

1. Description of Survey: NHANES II was one of a series of population based surveys conducted by the National Center for Health Statistics to help determine the health status of the Nation. Data were collected through response to questionnaires on medical history, food consumption, and health-related behavior. Data also were collected through direct medical examination. The tape documented here contains data from the demographic and physician examination parts of the survey for persons 6 months through 74 years of age. A detailed description of the design, content, questionnaires, and operation of NHANES II is provided in the following report: "Plan and Operation of the Second National Health and Nutrition Examination Survey, 1976-1980." DHHS Pub. No. (PHS) 81-1317, Vital and Health Statistics, Series 1, No. 15, Public Health Service, available at cost from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The stock number is 017-022-00752-5. One copy is provided with the documentation herein, and a general summary of the data collection techniques and content is given in Appendix A.

2. Target Population: NHANES II was conducted on a nationwide probability sample of approximately 28,000 persons 6 months through 74 years of age from the civilian, noninstitutionalized population of the United States. The survey started in February 1976 and was completed in February 1980. The NHANES II sample was selected so that certain population groups thought to be at high risk of malnutrition (persons with low incomes, preschool children, and the elderly) were oversampled. Adjusted sampling weights were then computed for 76 age, sex, and race categories to inflate the sample in such a manner as to closely reflect the estimated civilian, noninstitutionalized U.S. population 6 months through 74 years of age at the midpoint of the survey (March 1, 1978).

B. SAMPLE DESIGN AND RECOMMENDATIONS FOR ANALYSIS

NHANES II uses a multistage sample designed to represent the civilian, noninstitutionalized population of the United States, 6 months through 74 years of age. Since the sample is not a simple random one and certain population groups were oversampled, it is necessary to incorporate the person's sample weight for proper analysis of the data. The sample weight is a composite of the individual selection probability, adjustments for nonresponse, and poststratification adjustments.

NHANES II provides information on 20,322 individuals who were both interviewed and examined, and on another 4,964 individuals who were interviewed but not examined, in the age range 6 months through 74 years of age. In addition to the general examination components, several more detailed examinations were performed on subsamples of the population. Therefore, instead of there being one sample weight per person, there are several sample weights for each person. For a person not selected for a particular subsample, the associated subsample weight is zero. When analyzing the special subsamples, the analyst must be careful to select the appropriate sampling weight from the weights found in tape locations 282-317. For a more complete description of how the sample weights are calculated, see the detailed note section of this documentation. This file contains data on all 20,322 examined persons 6 months through 74 years of age.

The NHANES II data were collected using a complex sample design involving both clustering and stratification. Because of the complex design and the ratio adjustments applied to the sample weights, the direct application of standard statistical analysis methods for variance estimation and hypothesis testing may be very misleading. The modification of statistical analysis procedures to incorporate the effects of complex

survey designs is an important area of research; however, the current methodologies appropriate for the analysis of data from such surveys have not been made readily available in the standard packaged statistical software.

There are computer programs available which provide the capability of variance estimation for complex sample designs. The balanced repeated replication approach¹ is utilized in &REPERR &PSALMS to calculate the variance-covariance matrix. Both routines are available within the OSIRIS IV library.² SURREGR³ and SUPERCARP⁴ are programs that calculate the variance-covariance matrix using the linearization approach⁵ (Taylor series expansion). Another program, SESUDAAN,⁶ calculates variances and design effects. SURREGR and SESUDAAN are special procedures for the SAS package, which is available from SAS Institute, Box 8000, Cary, N.C., 27511.

In order to provide the user with the capability of estimating the complex sample variances in the NHANES II data using the above procedures, Strata and Pseudo Primary Sampling Unit (PSU) codes have been provided on all data tapes in positions 324-326. These variables and the sample weights are necessary for the calculation of variances.

Even though the overall number of examined persons in this survey is quite large for statistical inference purposes, subclass analyses can lead to estimators that are unstable, particularly estimates of variances. Consequently, analyses of subclasses require that the user pay particular attention to the coefficient of variation for the estimates of means, proportions and totals. In addition, small sample sizes, or a small number of PSU's used in the variance calculations, may produce unstable estimates of the variances using the above computer programs.

An NCHS publication discusses these issues and describes analytic strategies for examining various hypotheses for the first National Health and Nutrition Examination Survey (NHANES I), which used a similar type of complex sample design.⁷

II. PHYSICIAN'S EXAMINATION, AGES 6 MONTHS - 74 YEARS

A. DESCRIPTION

This data tape contains demographic and physician's examination data for all examined persons 6 months through 74 years of age.

B. DEMOGRAPHIC DATA COLLECTION

An advance letter, announcing the forthcoming arrival of an interviewer from the U.S. Bureau of the Census, was mailed to each household that fell into the NHANES II probability sample. The interviewer subsequently visited the household to ascertain its composition, select the sample person(s), and administer demographic and medical history questionnaires. Demographic information relating to the household, the housing unit, and each sample person 6 months through 11 years of age was obtained from an available and competent household respondent. (In contrast, the preferred respondent for the medical information for persons 12 through 74 years of age was the actual sample person, with proxy response accepted when the sample person was not available.)

C. PHYSICIAN'S EXAMINATION DATA COLLECTION

The physician's examination was conducted at the time of the medical examination in the Mobile Examination Center. The exam was conducted by a licensed M.D. using a standardized order and set of definitions - see Appendix B for details.

D. DATA EDITING

Extensive work was done to check the data collected for accuracy using the original microfilm records. Whenever possible, data were checked for internal consistency. If, any problems are found, please contact NCHS.

III. TAPE CHARACTERISTICS AND DESCRIPTION

A. TAPE CHARACTERISTICS

Title: Physician Examination, Ages 6 Months - 74 Years

Catalog Number: 5302

Data Set Name: HEHANES2.DU530201

Format: Fixed Block, EBCDIC

Record Length: 900

Blocksize: 24,300

Density: 6250 BPI

Number of Records: 20,322

Number of Reels: 1

Created by: Division of Health Examination Statistics
National Center for Health Statistics
Hyattsville, Maryland

B. INDEX TO TAPE POSITIONS

1. Demographic Section

Tape Positions

a. Residence Data

Sample Sequence Number.....	1- 5
Catalog Number (5371-for Demographic Data only).....	6- 9
Unused position.....	10
Size of place.....	11
SMSA-not SMSA.....	12
Unused positions.....	13-23
Type of living quarters.....	24
Land usage.....	25
If rural, asked does this place have 10 acres or more?.....	26
If 10 acres or more, asked if in the last 12 months did sales of farm produce and livestock amount to \$50 or more?.....	27
If less than 10 acres, asked if in the last 12 months did sales of farm produce and live stock amount to \$250 or more?.....	28
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Total number of sample persons in household.....	32-33

b. Sample Person Data

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Examination status.....	36
Family unit number.....	37-41
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Date of birth-year.....	53-54
Sex.....	55
Race.....	56
In what State was he/she born?.....	57-58
Is he/she married, widowed, divorced, separated or never married?.....	59
National origin or ancestry.....	60-61
Education level.....	62-63
Grade completed.....	64
What was he/she doing during most of the past 12 months?.....	65
What was he/she doing?.....	66
Did he/she work at a job or business at any time during the past three months?.....	67
Did he/she work full or part-time when working?.....	68

Demographic Section (Cont.)

Sample Person Data (Cont.)

Tape Positions

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Was he/she looking for work or on layoff from a job?.....	71
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When did he/she serve?.....	81
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How many bedrooms are in this?.....	92
Do you have complete kitchen facilities in your living quarters, that is a kitchen sink with piped water, a refrigerator and a range or cookstove? (Asked only of unrelated household members.).....	93
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Do you have access to a range or cookstove?.....	95
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Do you have access to a sink with piped water?.....	97
Is there piped water in this house (these living quarters)?.....	98
Is there both hot and cold water?.....	99
Are these kitchen facilities used by anyone not living in this household?.....	100
What is the main type of heating system you have?.....	101-102
Do you have air conditioning?.....	103
How many motor vehicles are owned or regularly used for transportation by members of your family?.....	104
Is any language other than English spoken by family members living here?.....	105
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Demographic Section (Cont.)

<u>Household Data (Cont.)</u>	<u>Tape Positions</u>
During the past 12 months, how much money did you and all members of your family receive in wages or salaries before deductions (under \$7,000 only)?.....	109-112
Social security or railroad retirement?.....	113
Unused position.....	114
If yes, how much?.....	115-118
Welfare payments or other public assistance?.....	119
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If yes, how much?.....	121-124
Unemployment compensation or workmen's compensation?.....	125
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If yes, how much?.....	127-130
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If yes, how much?.....	133-136
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If yes, how much?.....	145-148
Net income from a farm?.....	149
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If yes, how much?.....	151-154
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If yes, how much?.....	157-160
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Unused position.....	162
If yes, how much?.....	163-166
Any other income?.....	167
Unused position.....	168
If yes, how much?.....	169-172
Total amount.....	173-176
Check Item B - Food stamps available.....	177
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Are you buying food stamps now?.....	179
What is the main reason you are not participating in the program?.....	180
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Demographic Section (Cont.)

Household Data (Cont.)

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What was he/she doing?.....	266
Did he/she work at job or business during past three months?.....	267
Did he/she work full or part-time when working?.....	268
Did he/she work at any time the last two weeks not counting work around the house?.....	269
Even though he/she did not work, does he/she have a job or business?.....	270
Was he/she looking for work or on layoff from a job?.....	271
Which - looking for work or on layoff from a job?.....	272
Type of industry or business.....	273-275
What kind of work was he/she doing?.....	276-278
Was he/she in private company or business or working for individual for wages, salary or commission?.....	279
Did he/she ever serve in the armed forces of the U.S.?.....	280
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GENERAL MEDICAL EXAMINATION DATA SUMMARY - HANES II

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Deformity.....	675
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Thoracic.....	706
Low back.....	707
Diffuse.....	708
Uncertain.....	709

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Edema.....753

EXAMINER'S SUBJECTIVE IMPRESSION OF NUTRITIONAL STATUS

Normal/Abnormal nutrition.....	755
Obesity.....	756

BLOOD PRESSURE

Cuff Width.....	757
Time - Hour.....	758-759
Time - Minutes.....	760-761
Time - AM/PM.....	762
Systolic - Recumbent.....	763-765
Diastolic - Recumbent.....	768-770
Systolic - Sitting.....	771-773
Diastolic - Sitting.....	774-776
Examiner No.....	777-778

SUMMARY OF DIAGNOSTIC IMPRESSIONS

Severity.....	780
Certainty.....	781
ICDA Code a.....	782-785
Severity.....	786
Certainty.....	787
ICDA Code b.....	788-791
Severity.....	792
Certainty.....	793
ICDA Code c.....	794-797
Severity.....	798
Certainty.....	799
ICDA Code d.....	800-803
Severity.....	804
Certainty.....	805
ICDA Code e.....	806-809
Severity.....	810
Certainty.....	811
ICDA Code f.....	812-815
Severity.....	816
Certainty.....	817
ICDA Code g.....	818-821
Severity.....	822
Certainty.....	823
ICDA Code h.....	824-827
Severity.....	828
Certainty.....	829
ICDA Code i.....	830-833
Severity.....	834
Certainty.....	835
ICDA Code j.....	836-839
Severity.....	840
Certainty.....	841
ICDA Code k.....	842-845
Severity.....	846

Tape
Positions

Certainty.....	847
ICDA Code l.....	848-851
Severity.....	852
Certainty.....	853
ICDA Code m.....	854-857
Severity.....	858
Certainty.....	859
ICDA Code n.....	860-863
Severity.....	864
Certainty.....	865
ICDA Code o.....	866-869
Examiner Number.....	870-871

C. USE OF SPECIAL TERMS

For the demographic data, the term "blank but applicable", is used to indicate a data item that was to have a response for a sample person but for which no usable data were provided. This includes unanswered data fields, as well as those containing impossible entries: i.e., out-of-range or inconsistent with other entries. The term "blank" refers to data items where the sample person was not supposed to respond to the question.

The notation "see detailed note" is intended to refer the user to the section Detailed Notes. In this section, a comprehensive description of the field is given.

National Health and Nutrition Examination Survey II

Tape position(s), item descriptions, and codes	Counts
P.001-005 Sample person sequence number	
00001-27796	20,322
P.006-009 Catalog number	
5371	20,322
P.010 Blank	
P.011 (see Detailed Notes) Size of place	
1 urbanized area with 3,000,000 or more	2,530
2 urbanized area 1,000,000 to 2,999,999	2,502
3 urbanized area with 250,000 to 999,999	2,564
4 urbanized area under 250,000	1,902
5 urban place 25,000 or more outside urbanized area	955
6 urban place 10,000-24,999 outside urbanized area	922
7 urban place 2,500 to 9,999 outside urbanized area	1,556
8 rural	7,391
P.012 (see Detailed Notes) SMSA-not SMSA	
1 in SMSA, in central city	5,709
2 in SMSA, not in central city	5,620
4 not in SMSA	8,993
P.013-023 Blank	
P.024 Q7 Type of living quarters	
1 housing unit	20,131
2 other unit	191
P.025 Q9 Land usage	
1 urban	12,969
2 rural	7,353
P.026 Q11a If rural, does this place have 10 acres or more?	
1 yes	1,549
2 no	5,804
9 not applicable	12,969

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.027 Q11b	
If 10 acres or more, during the past 12 months did sales of crops, livestock, and other farm products from this place amount to \$50 or more?	
1 yes	890
2 no	659
9 not applicable	18,773
P.028 Q11c	
If less than 10 acres, during the past 12 months did sales of crops, livestock, and other farm products from this place amount to \$250 or more?	
1 yes	190
2 no	5,614
9 not applicable	14,518
P.029 Blank	
P.030-031	
Total number of persons in household	
01-15 persons	20,322
P.032-033	
Total number of sample persons in family	
01-06 persons	20,322
Sample person data (P.034-081)	
P.034 Blank	
P.035	
Family relationship	
1 head, one person living alone or with non-relatives	2,185
2 head, 2 or more related persons in family	4,969
3 wife	3,869
4 child	8,301
5 other relative	950
6 foster child	40
7 husband	8
P.036	
Examination status	
1 examined	20,322
P.037-041	
Family unit sequence number (see Detailed Notes)	
00001-21050	20,322

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.042-044 Blank	
P.045-046 Q3 Age/months at interview	
06-11 months	356
blank greater than 11 months	19,966
P.047-048 Q3 Age/years at interview	
01-74 years	19,966
00 if less than 12 months	356
P.049-050 Blank	
P.051-052 Q2 Date of birth -- month	
01-12 month	20,322
P.053-054 Date of birth -- year	
01-79 year	20,322
P.055 Q4 Sex	
1 male	9,983
2 female	10,339
P.056 Q5 (see Detailed Notes) Race	
1 white	17,105
2 black	2,763
3 other	454
P.057-058 Q6 (see Detailed Notes) In what state was he/she born?	
01-97	20,086
88 blank but applicable	236
P.059 Q7 Is he/she married, widowed, divorced, separated or never married?	
1 under 17	7,511
2 married	8,196
3 widowed	1,151
4 divorced	658
5 separated	332
6 never married	2,437
8 blank but applicable	37

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes		Counts
P.060-061 Q8		
National origin or ancestry		
01	countries of Central or South America	121
02	Chicano	43
03	Cuban	95
04	Mexican	258
05	Mexicano	82
06	Mexican-American	419
07	Puerto Rican	192
08	other Spanish	100
09	other European, such as German, French, English, Irish	14,221
10	black, Negro or Afro-American	2,662
11	American Indian or Alaskan native	270
12	Asian or Pacific Islander such as Chinese, Japanese, Philippino, Samoan	382
13	another group not listed	1,069
88	blank but applicable	408
P.062-063 Q9a		
What was the highest grade or year of school he/she ever attended?		
00	none (regardless of age)	4,351
21-28	elementary grades (1-8)	4,811
31-34	high school (1-4)	7,297
41-45	college (1-5+)	3,719
88	blank but applicable	144
P.064 Q9b		
Did he/she finish that grade (year)?		
1	yes	10,215
2	no	5,471
8	blank but applicable	285
	blank	4,351
P.065 Q10a		
What was he/she doing during most of the past 12 months?		
1	working	6,667
2	keeping house	3,372
3	something else	2,721
8	blank but applicable	51
	blank	7,511
P.066 Q10b		
What was he/she doing?		
1	layoff	27
2	retired	1,179
3	student	966
4	ill	61
5	staying home	96
6	looking for work	98
7	unable to work	225
8	blank but applicable	51
0	other	69
	blank	17,550

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.067 Q10c Did he/she work at a job or business at any time during the past three months?	
1 yes	1,095
2 no	4,998
8 blank but applicable	51
blank	14,178
P.068 Q10d When he/she was working, did he/she work full time or part time?	
1 full time	6,188
2 part time	1,574
8 blank but applicable	51
blank	12,509
P.069 Q11a Did he/she work at any time last week or the week before, not counting work around the house?	
1 yes	6,889
2 no	873
8 blank but applicable	51
blank	12,509
P.070 Q11b Even though he/she did not work during that time does he/she have a job or business?	
1 yes	387
2 no	5,484
8 blank but applicable	51
blank	14,400
P.071 Q11c Was he/she looking for work or on layoff from a job?	
1 yes	546
2 no	5,325
8 blank but applicable	51
blank	14,400
P.072 Q11d Which looking for work or on layoff from a job?	
1 looking	424
2 layoff	91
3 both	31
8 blank but applicable	51
blank	19,725
P.073-075 Q12b (see Detailed Notes) What kind of industry or business is this?	
017-998 (last digit 7,8,9)	7,701
000 blank but applicable	118
blank	12,503

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.076-078 Q12c (see Detailed Notes)	
What kind of work was he/she doing?	
001-992 occupation (last digit 0-6)	7,690
000 blank but applicable	129
blank	12,503
P.079 Q12e	
Was he/she an employee of a private company, business, or individual for wages, salary, or commission?	
1 private	5,361
2 a federal government employee	277
3 a state government employee	443
4 a local government employee	647
5 own incorporated business	139
6 self employed (or farm)	775
7 working without pay in family business or farm	61
8 never worked	38
0 blank but applicable	78
blank	12,503
P.080 Q13a	
Did he/she ever serve in the armed forces of the U.S.?	
1 yes	2,243
2 no	10,336
8 blank but applicable	232
blank	7,511
P.081 Q13b	
When did he/she serve?	
1 Vietnam	551
2 Korean War	283
3 World War II	1,101
4 World War I	3
5 post Vietnam	10
6 other service	271
8 blank but applicable	232
9 do not know	24
blank	17,847
P.082-090 Blank	
Household data (P.091-212)	
P.091 Q14a	
How many rooms are in this residence? Count the kitchen, but not the bath.	
1-8 rooms	18,954
9 9 or more rooms	1,368

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.092 Q14b How many bedrooms are in this residence?	
0-7 bedrooms. More than 7 bedrooms coded as 7	20,322
P.093 Q14c Ask only of unrelated household members. Do you have complete kitchen facilities in your living quarters, that is a kitchen sink with piped water, a refrigerator and a range or cookstove?	
1 yes	143
2 no	198
blank	19,981
P.094 Q15a Do you (have, have access to) complete kitchen facilities in this house; that is a kitchen sink with piped water, a refrigerator, and a range or cookstove?	
1 yes	19,817
2 no	287
8 blank but applicable	75
blank	143
P.095 Q15b Do you have access to a range or cookstove?	
1 yes	178
2 no	109
8 blank but applicable	75
blank	19,960
P.096 Q15b Do you have access to a refrigerator?	
1 yes	203
2 no	84
8 blank but applicable	75
blank	19,960
P.097 Q15b Do you have access to a sink with piped water?	
1 yes	102
2 no	185
8 blank but applicable	75
blank	19,960
P.098 Q15c Is there piped water in this house (these living quarters)?	
1 yes	25
2 no	160
8 blank but applicable	75
blank	20,062

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.099 Q15d	
Is there both hot and cold water?	
1 yes	117
2 no	10
8 blank but applicable	75
blank	20,120
P.100 Q15e	
Are these kitchen facilities used by anyone not living in this household?	
1 yes	315
2 no	19,502
8 blank but applicable	75
blank	430
P.101-102 Q16	
What is the main type of heating system you have?	
11 steam or hot water system	3,138
12 central warm air furnace with ducts to individual rooms or central heat pump (forced air)	9,887
13 built in electric units (permanently installed in wall, ceiling or baseboard)	1,204
14 floor, wall or pipeless furnace	1,726
15 circulating, radiant or room heaters, with flue or vent, burning gas, oil or kerosene	1,722
16 circulating, radiant, or room heaters (not portable) without flue or vent burning gas, oil or kerosene	814
17 fireplace or stoves burning coal, wood or coke	717
18 portable room heaters of any kind	423
19 some other type	257
20 none, unit is not heated	299
88 blank but applicable	135
P.103 Q17	
Do you have air conditioning?	
1 yes, individual room unit	6,032
2 yes, central air conditioning	3,646
3 no	10,549
8 blank but applicable	95
P.104 Q18	
How many motor vehicles are owned or regularly used for transportation by members of your family?	
0 none	2,256
1-8 vehicles. More than 8 coded as 8	17,917
9 blank but applicable	149
P.105 Q19a	
Is any language other than English spoken by family members living here?	
1 yes	2,185
2 no	18,045
8 blank but applicable	92

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.106 Q19b	
What language?	
0 German	89
1 Italian	120
2 French	250
3 Polish	55
4 Russian	19
5 Spanish	1,168
6 Chinese	42
7 other language	428
8 blank but applicable	106
9 not applicable	18,045
P.107-108 Q20 (see Detailed Notes)	
Which of these income groups represents your total combined family income for the past 12 months?	
11 under \$1,000	235
12 \$1,000-1,999	398
13 \$2,000-2,999	738
14 \$3,000-3,999	869
15 \$4,000-4,999	828
16 \$5,000-5,999	733
17 \$6,000-6,999	595
18 \$7,000-9,999	3,630
19 \$10,000-14,999	4,034
20 \$15,000-19,999	3,046
21 \$20,000-24,999	2,071
22 \$25,000 and over	2,394
88 blank but applicable	751
P.109-112 Q21	
During the past 12 months, how much money did you and all members of your family receive in wages or salaries before deductions?	
0000-6999 dollars	4,200
8888 blank but applicable	947
blank	15,175
P.113 Q22a	
Social security or railroad retirement?	
1 yes	1,750
2 no	2,742
8 blank but applicable	655
blank	15,175
P.114 Blank	
P.115-118	
If yes, how much?	
0038-6828 dollars	1,664
8888 blank but applicable	741
blank	17,917

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.119 Q22b	
welfare payments or other public assistance?	
1 yes	1,311
2 no	3,187
8 blank but applicable	649
blank	15,175
P.120 Blank	
P.121-124	
If yes, how much?	
0012-6800 dollars	1,269
8888 blank but applicable	691
blank	18,362
P.125 Q22c	
Unemployment compensation or workmen's compensation?	
1 yes	347
2 no	4,152
8 blank but applicable	648
blank	15,175
P.126 Blank	
P.127-130	
If yes, how much?	
0015-6640 dollars	306
8888 blank but applicable	689
blank	19,327
P.131 Q22d	
Government employee pension or private pensions?	
1 yes	256
2 no	4,240
8 blank but applicable	651
blank	15,175
P.132 Blank	
P.133-136	
If yes, how much?	
0036-6000 dollars	234
8888 blank but applicable	673
blank	19,415

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.137 Q22e Dividends, interest or rent?	
1 yes	464
2 no	4,026
8 blank but applicable	657
blank	15,175
P.138 Blank	
P.139-142 If yes, how much?	
0001-5200 dollars	427
8888 blank but applicable	694
blank	19,201
P.143 Q22f Net income from their own business (nonfarm), professional practice, or partnership?	
1 yes	157
2 no	4,317
3 loss	18
8 blank but applicable	655
blank	15,175
P.144 Blank	
P.145-148 If yes, how much?	
0001-6800 dollars	139
8888 blank but applicable	691
blank	19,492
P.149 Q22g Net income from a farm?	
1 yes	120
2 no	4,342
3 loss	29
8 blank but applicable	656
blank	15,175
P.150 Blank	
P.151-154 If yes, how much?	
0000-6500 dollars	117
8888 blank but applicable	688
blank	19,517

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.155 Q22h Veterans payments?	
1 yes	245
2 no	4,251
8 blank but applicable	651
blank	15,175
P.156 Blank	
P.157-160 If yes, how much?	
0060-6000 dollars	231
8888 blank but applicable	665
blank	19,426
P.161 Q22i Alimony, child support or other support from persons not in household?	
1 yes	312
2 no	4,182
8 blank but applicable	653
blank	15,175
P.162 Blank	
P.163-166 If yes, how much?	
0020-6900 dollars	297
8888 blank but applicable	668
blank	19,357
P.167 Q22j Any other income?	
1 yes	196
2 no	4,299
8 blank but applicable	652
blank	15,175
P.168 Blank	
P.169-172 If yes, how much?	
0003-6403 dollars	188
8888 blank but applicable	660
blank	19,474

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P. 173-176	
Total amount (Q21 & Q22)	
0200-6999 dollars	4,036
8888 blank but applicable	1,111
blank	15,175
P. 177	
Check item b	
2 food stamps available	20,080
4 both food stamps and commodities	242
P. 178 Q23a	
Are you certified to participate in the food stamp program?	
1 yes	2,349
2 no	16,921
8 blank but applicable	4
9 dont know	1,048
P. 179 Q23b	
Are you buying food stamps now?	
1 yes, regularly	1,740
2 yes, occasionally	117
3 no	457
8 blank but applicable	39
blank	17,969
P. 180 Q23c	
What is the main reason you are not participating in the program?	
1 no need	77
2 not enough money at the time	96
3 no transportation	16
4 pride	31
5 other	201
8 blank but applicable	75
blank	19,826
P. 181 Q24a	
Are you certified for commodity distribution program?	
1 yes	17
2 no	215
9 do not know	10
blank	20,080
P. 182 Q24b	
Are you receiving commodity foods now for your family?	
1 yes, regulary	2
2 yes, occasionally	1
3 no	14
blank	20,305

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.183 Q24c	
Why aren't you participating in the program?	
1 no need	4
2 no transportation	2
3 pride	3
4 other	4
8 blank but applicable	1
blank	20,308
P.184-185 Control Record	
Date of exam -- month	
01-12 month	20,322
P.186-187 Control Record	
Date of exam -- day	
01-31 day	20,322
P.188-189 Control Record	
Date of exam -- year	
76-80 year	20,322
P.190-191	
Age at examination	
00 less than 12 months or not examined	299
01-75 years	20,023
P.192-205 Blank	
P.206	
Race/sex recode for sample person (see Detailed Notes)	
1 male, white	8,389
2 male, black	1,341
3 male, other	253
4 female, white	8,716
5 female, black	1,422
6 female, other	201
P.207 (see Detailed Notes)	
Farm, non-farm recode for sample person	
1 farm	1,080
2 non-farm	19,242
P.208	
Interview status	
1 interviewed	20,322

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.209 (see Detailed Notes)	
Region	
1 Northeast	4,396
2 Midwest	5,421
3 South	5,507
4 West	4,998
P.210-212 (see Detailed Notes)	
Poverty index (x.xx)	
001-880	19,569
999 unknown	753
P.213-246 Blank	
Head of household data (P.247-281)	
P.247-248 Q3	
Age	
15-99 years	20,322
P.249-250 Blank	
P.251-252 Q2	
Date of birth -- month	
01-12 month	20,267
88 blank but applicable	55
P.253-254	
Date of birth -- year	
00-99 year	20,301
88 blank but applicable	21
P.255 Q4	
Sex	
1 male	16,372
2 female	3,950
P.256 Q5	
Race (see Detailed Notes)	
1 white	17,131
2 black	2,748
3 other	443

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.257-258 Q6 (see Detailed Notes)	
In what state was he/she born?	
01-97	20,150
88 blank but applicable	172
P.259 Q7	
Is he/she married, widowed, divorced, separated, or never married?	
1 under 17	3
2 married	15,273
3 widowed	1,492
4 divorced	1,248
5 separated	828
6 never married	1,430
8 blank but applicable	48
P.260-261 Q8	
National origin or ancestry?	
01 countries of Central or South America	126
02 Chicano	46
03 Cuban	93
04 Mexican	287
05 Mexicano	104
06 Mexican-American	342
07 Puerto Rican	205
08 other Spanish	86
09 other European, such as German, French, English, Irish	14,324
10 black, Negro or Afro-American	2,640
11 American Indian or Alaskan native	329
12 Asian or Pacific Islander such as Chinese, Japanese, Korean, Philippino, Samoan	378
13 another group not listed	958
88 blank but applicable	404
P.262-263 Q9a	
What was the highest grade or year of school he/she has ever attended?	
00 none (regardless of age)	153
21-28 elementary grades (1-8)	3,955
31-34 high school (1-4)	9,834
41-45 college (1-5+)	6,175
88 blank but applicable	205
P.264 Q9b	
Did he/she finish that grade?	
1 yes	15,079
2 no	4,669
8 blank but applicable	421
blank	153
P.265 Q10a	
What was he/she doing most of the past 12 months?	
1 working	14,684
2 keeping house	1,891
3 something else	3,666
8 blank but applicable	78

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.265 Q10a What was he/she doing most of the past 12 months? blank	3
P.266 Q10b What was he/she doing? 1 layoff 2 retired 3 student 4 ill 5 staying home 6 looking for work 7 unable to work 8 blank but applicable 0 other blank	94 2,160 476 147 110 143 445 78 91 16,578
P.267 Q10c Did he/she work at job or business during past three months? 1 yes 2 no 8 blank but applicable blank	779 4,778 78 14,687
P.268 Q10d When he/she was working, did he usually work full time or part time? 1 full time 2 part time 8 blank but applicable blank	14,166 1,297 78 4,781
P.269 Q11a Did he/she work at any time the last two weeks not counting work around the house? 1 yes 2 no 8 blank but applicable blank	14,317 1,146 78 4,781
P.270 Q11b Even though he/she did not work, during that time, does he/she have a job or business? 1 yes 2 no 8 blank but applicable blank	621 5,303 78 14,320
P.271 Q11c Was he/she looking for work or on layoff from a job? 1 yes 2 no 8 blank but applicable blank	761 5,163 78 14,320

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.272 Q11d	
Which looking for work or on layoff from a job?	
1 looking	535
2 layoff	170
3 both	56
8 blank but applicable	78
blank	19,483
P.273-275 Q12b (see Detailed Notes)	
Type of industry or business?	
017-998 (last digit 7,8,9)	15,322
000 blank but applicable	366
blank	4,634
P.276-278 Q12c (see Detailed Notes)	
What kind work was he/she doing?	
001-992 occupation (last digit 0-6)	15,313
000 blank but applicable	375
blank	4,634
P.279 Q12e	
Was he/she an employee of a private company, business or individual for wages, salary, or commission?	
1 private	10,773
2 a federal government employee	788
3 a state government employee	741
4 a local government employee	1,062
5 own incorporated business	388
6 self-employed (or farm)	1,758
7 working without pay in family business or farm	10
8 never worked	19
0 blank but applicable	149
blank	4,634
P.280 Q13a	
Did he/she ever serve in the armed forces of the U.S.?	
1 yes	7,205
2 no	12,896
8 blank but applicable	218
blank	3
P.281 Q13b	
When did he/she serve?	
1 Vietnam	2,135
2 Korean War	1,221
3 World War II	2,429
4 World War I	47
5 post Vietnam	220
6 other service	1,057
8 blank but applicable	218
9 do not know	96
blank	12,899

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
See Detailed Notes for positions 282-326	
P.282-287 Examined final weight	
001218-079634	20,322
P.288-293 Medical history interview final weight	
001171-071969	20,322
P.294-299 Glucose tolerance test final examined weight	
003502-084477 000000	5,903 14,419
P.300-305 Lead final examined weight	
001218-084115 000000	12,288 8,034
P.306-311 Carboxyhemoglobin final examined weight	
002546-110759 000000	9,365 10,957
P.312-317 Bile acids final examined weight	
003519-087638 000000	4,089 16,233
P.318-323 Pesticides final examined weight	
003765-094847 000000	7,265 13,057
P.324-325 Strata	
01-32	20,322
P.326 Pseudo primary sampling unit	
1 or 2	20,322

National Health and Nutrition Examination Survey II-Continued

Tape position(s), item descriptions, and codes	Counts
P.327	
Poverty non-poverty segments (see detailed notes)	
1 non-poverty	9,689
2 poverty	10,633

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
401-404	Catalog number		
	5302	20,322	
405-406	Blank	20,322	
407	Physician's examination form blank		See detailed notes
	1 form is blank	14	
	blank	20,308	
408-410	Pulse		All ages See detailed notes
	033-200 beats per minute	19,995	
	888 blank but applicable	313	
	blank	14	
411-413	Systolic blood pressure		Age 6 years and over See detailed notes
	065-300 mm Hg	16,109	
	888 blank but applicable	88	
	blank	4,125	
414-416	Diastolic blood pressure		
	035-150 mm Hg	16055	
	888 blank but applicable	142	
	blank	4,125	
417	Cuff width		See detailed notes
	1 Adult	14,462	
	2 Child	1,598	
	8 blank but applicable	137	
	blank	4,125	
418-419	Examiner number		
	30-49 physician number	16193	
	88 blank but applicable	4	
	blank	4125	
<u>HEAD, EYES, EARS, NOSE, AND THROAT</u>			
420	1 findings	15,713	See detailed notes
	2 no findings	4,593	
	8 blank but applicable	2	
	blank	14	
421	Dry, staring hair		
	1 yes	4	
	blank	20,318	
422	Dyspigmented hair		
	1 yes	0	
	blank	20,322	

National Health and Nutrition Examination Survey - NHANES II Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
423	Easily pluckable hair		
	1 yes	2	
	blank	20,320	
424	Abnormal texture or loss of curl		
	1 yes	5	
	blank	20,317	
425	Circumcorneal injection		
	1 yes	30	
	blank	20,292	
426	Conjunctival injection		
	1 yes	1,319	
	blank	19,003	
427	Angular blepharitis		
	1 yes	15	
	blank	20,307	
428	Pupils and iris		
	1 yes	73	
	blank	20,249	
429	Xerosis		
	1 yes	4	
	blank	20,318	
430	Lesions of cornea (other)		
	1 yes	42	
	blank	20,280	
431	Bitot's spots		
	1 yes	4	
	blank	20,318	
432	Conjugate gaze		
	1 yes	6	
	blank	20,316	
423	Keratomalacia		
	1 yes	2	
	blank	20,320	
434	Strabismus		
	1 yes	79	
	blank	20,243	
435	Xerophthalmia		
	1 yes	3	
	blank	20,319	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
436	Conjunctiva (other)		
	1 yes	152	
	blank	20,170	
437	Lids and sclera (other)		
	1 yes	23	
	blank	20,299	
438	Angular lesions of lips		
	1 yes	33	
	blank	20,289	
439	Angular scars of lips		
	1 yes	17	
	blank	20,305	
440	Cheilosis		
	1 yes	49	
	blank	20,273	
441	Filiform papillary atrophy of tongue		
	1 yes	89	
	blank	20,233	
442	Fungiform papillary hypertrophy of tongue		
	1 yes	971	
	blank	19,351	
443	Geographic tongue		
	1 yes	138	
	blank	20,184	
444	Fissures of tongue		
	1 yes	939	
	blank	19,383	
445	Serrations or swelling of tongue		
	1 yes	1,002	
	blank	19,320	
446	Scarlet beefy tongue		
	1 yes	26	
	blank	20,296	
447	Magenta tongue		
	1 yes	4	
	blank	20,318	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
448	Bleeding gums		
	1 yes	5	
	blank	20,317	
449	Diffuse marginal inflammation		
	1 yes	142	
	blank	20,180	
450	Swollen red papillae		
	1 yes	101	
	blank	20,221	
451	Recession		
	1 yes	535	
	blank	19,787	
452	Naso-labial seborrhea		
	1 yes	9	
	blank	20,313	
453	Visible enlarged parotids		
	0 yes	20	
	blank	20,302	
454	Bossing of skull		
	1 yes	28	
	blank	20,294	
455	Blank	20,322	
	<u>EXTERNAL EAR</u>		
456	Right ear		See detailed notes
	1 no findings	16,261	
	2 findings	4,044	
	8 blank but applicable	3	
	blank	14	
457	Left ear		See detailed notes
	1 no findings	15,966	
	2 findings	4,339	
	8 blank but applicable	3	
	blank	14	
458	Operative scar - Left mastoid		
	1 yes	20	
	blank	20,302	

National Health and Nutrition Examination Survey - NHANES II Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
459	Operative scar - Right mastoid		
	1 yes	17	
	blank	20,305	
460-461	Blank	20,322	
462	Pierced ears - Left		
	1 yes	4,028	
	blank	16,294	
463	Pierced ears - Right		
	1 yes	4,325	
	blank	15,997	
	<u>AUDITORY CANAL</u>		
464	Right auditory canal		See detailed notes
	1 no findings	17,914	
	2 findings	2,391	
	8 blank but applicable	3	
	blank	14	
465	Left auditory canal		See detailed notes
	1 no findings	17,977	
	2 findings	2,328	
	8 blank but applicable	3	
	blank	14	
466	Occluded - Right		
	1 partially	793	
	2 completely	1,409	
	8 blank but applicable	189	
	blank	17,931	
467	Occluded - Left		
	1 partially	756	
	2 completely	1,381	
	8 blank but applicable	191	
	blank	17,994	
468	Occluded by - Right		
	1 cerumen	2,072	
	2 other	206	
	8 blank but applicable	113	
	blank	17,931	
469	Occluded by - Left		
	1 cerumen	2,020	
	2 other	197	
	8 blank but applicable	111	
	blank	17,994	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
	<u>DRUM</u>		
470	Right drum		See detailed notes
	1 no findings	17,537	
	2 findings	1,329	
	3 not visible	1,439	
	8 blank but applicable	3	
	blank	14	
471	Left Drum		See detailed notes
	1 no findings	17,439	
	2 findings	1,487	
	3 not visible	1,379	
	8 blank but applicable	3	
	blank	14	
472	Dull/Transparent - Right		
	1 dull (opaque)	407	
	2 transparent	5	
	blank	19,910	
473	Dull/Transparent - Left		
	1 dull (opaque)	470	
	2 transparent	6	
	blank	19,846	
474	Bulging/Retracted - Right		
	1 bulging	6	
	2 retracted	92	
	blank	20,224	
475	Bulging/Retracted - Left		
	1 bulging	7	
	2 retracted	136	
	blank	20,179	
476	Calcium plaques - Right		
	1 yes	117	
	blank	20,205	
477	Calcium plaques - Left		
	1 yes	130	
	blank	20,192	
478	Red - Right		
	1 red	184	
	2 other discolorations	41	
	blank	20,097	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
479	Red - Left		
	1 red	238	
	2 other discolorations	43	
	blank	20,041	
480	Fluid - Right		
	1 fluid	18	
	blank	20,314	
481	Fluid - Left		
	1 fluid	9	
	blank	20,313	
482	Scars - Right		
	1 scars	508	
	blank	19,814	
483	Scars - Left		
	1 scars	524	
	blank	19,798	
484	Perforated - Right		
	1 with discharge	23	
	2 without discharge	75	
	blank	20,224	
485	Perforated - Left		
	1 with discharge	21	
	2 without discharge	58	
	blank	20,243	
486-487	Blank	20,322	
	<u>NARES</u>		
488	Right nares		See detailed notes
	1 no findings	18,061	
	2 findings	2,244	
	8 blank but applicable	3	
	blank	14	
489	Left nares		See detailed notes
	1 no findings	18,169	
	2 findings	2,136	
	8 blank but applicable	3	
	blank	14	
490	Obstruction - Right		
	1 acute	143	
	2 chronic	85	
	blank	20,094	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
491	Obstruction - Left		
	1 acute	146	
	2 chronic	86	
	blank	20,090	
	<u>Other Significant Findings</u>		
492	Deviated septum - Right		
	1 yes	453	
	blank	19,869	
493	Deviated septum - Left		
	1 yes	267	
	blank	20,055	
494	Swollen turbinates - Right		
	1 yes	1,457	
	blank	18,865	
495	Swollen turbinates - Left		
	1 yes	1,532	
	blank	18,790	
496	Chronic inflammation - Right		
	1 yes	343	
	blank	19,979	
497	Chronic inflammation - Left		
	1 yes	345	
	blank	19,977	
498	Polyps - Right		
	1 yes	20	
	blank	20,302	
499	Polyps - Left		
	1 yes	17	
	blank	20,305	
500-501	Blank	20,322	
	<u>NECK</u>		
502	1 no findings	19,805	See detailed note
	2 findings	500	
	8 blank but applicable	3	
	blank	14	
503	Adenopathy		
	1 yes	492	
	blank	19,830	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
504	Tracheal deviation		
	1 yes	8	
	blank	20,314	
505	Blank	20,322	
<u>THYROID EVALUATION</u>			
506	WHO Classification		
	1 Group 0	19,294	See detailed notes
	2 Group 1	826	
	3 Group 2	99	
	4 Group 3	15	
	8 blank but applicable	74	
	blank	14	
<u>Other thyroid findings</u>			
507	1 findings	117	See detailed notes
	2 no findings	20,188	
	8 blank but applicable	3	
	blank	14	
508	Tenderness		
	1 right	8	
	2 left	0	
	3 both	7	
	blank	20,307	
509	Nodule		
	1 right	55	
	2 left	25	
	3 both	15	
	blank	20,227	
510	Isthmus		
	1 right	22	
	2 left	0	
	3 both	0	
	blank	20,300	
511	Blank	20,322	
<u>CHEST EVALUATION</u>			
512	1 findings	723	See detailed notes
	2 no findings	19,570	
	8 blank but applicable	15	
	blank	14	
513	Beading of ribs		
	1 yes	9	
	blank	20,313	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
514	Follicular hyperkeratosis of upper back		
	1 yes	75	
	blank	20,247	
515	Wheezing on auscultation - Diffuse		See detailed notes
	1 yes	193	
	blank	20,129	
516	Wheezing on auscultation - Focal		See detailed notes
	1 yes	83	
	blank	20,239	
517	Decreased breath sounds (diffuse)		See detailed notes
	1 yes	254	
	blank	20,068	
518	Masses (breast)		
	1 right	45	
	2 left	50	
	3 both	48	
	blank	20,179	
519	Auscultation		See detailed notes
	1 no findings	19,145	
	2 findings	1,148	
	8 blank but applicable	15	
	blank	14	
	<u>Right chest - Upper lobe</u>		
520	Breath sounds		See detailed notes
	1 diminished breath sounds	203	
	2 absent breath sounds	4	
	blank	20,115	
521	Bronchial breath sounds		
	1 yes	141	
	blank	20,181	
522	Rales		
	1 yes	101	
	blank	20,221	
523	Rhonchi		
	1 yes	105	
	blank	20,217	
524	Wheeze		
	1 yes	168	
	blank	20,154	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
	<u>Right chest - Middle lobe</u>		
525	Breath sounds		See detailed notes
	1 diminished breath sounds	133	
	2 absent breath sounds	2	
	blank	20,187	
526	Bronchial breath sounds		
	1 yes	125	
	blank	20,197	
527	Rales		
	1 yes	106	
	blank	20,216	
528	Rhonchi		
	1 yes	110	
	blank	20,212	
529	Wheeze		
	1 yes	160	
	blank	20,162	
	<u>Right chest - Lower lobe</u>		
530	Breath sounds		See detailed notes
	1 diminished breath sounds	152	
	2 absent breath sounds	5	
	blank	20,165	
531	Bronchial breath sounds		
	1 yes	155	
	blank	20,167	
532	Rales		
	1 yes	237	
	blank	20,085	
533	Rhonchi		
	1 yes	155	
	blank	20,167	
534	Wheeze		
	1 yes	192	
	blank	20,130	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
	<u>Left chest - Upper lobe</u>		
535	Breath sounds		See detailed notes
	1 diminished breath sounds	199	
	2 absent breath sounds	10	
	blank	20,113	
536	Bronchial breath sounds		
	1 yes	135	
	blank	20,187	
537	Rales		
	1 yes	112	
	blank	20,210	
538	Rhonchi		
	1 yes	107	
	blank	20,215	
539	Wheeze		
	1 yes	170	
	blank	20,143	
	<u>Left chest - Lower lobe</u>		
540	Breath sounds		See detailed notes
	1 diminished breath sounds	139	
	2 absent breath sounds	11	
	blank	20,172	
541	Bronchial breath sounds		
	1 yes	159	
	blank	20,163	
542	Rales		
	1 yes	258	
	blank	20,064	
543	Rhonchi		
	1 yes	149	
	blank	20,173	
544	Wheeze		
	1 yes	190	
	blank	20,132	
545	Blank	20,322	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
	<u>HEART</u>		
546	P.M.I. - Point of maximum impulse		Age 18 years and over See detailed notes
	1 felt	5,532	
	2 not felt	6,966	
	8 blank but applicable	1	
	blank	7,823	
547	Interspace		
	4 th	640	
	5 th	4,637	
	6 th	227	
	7 th	7	
	blank	14,811	
548	Midclavicular line		
	1 at	3,615	
	2 inside	1,697	
	3 outside	158	
	blank	14,852	
549	Thrills		
	1 absent	20,272	
	2 present	33	
	8 blank but applicable	3	
	blank	14	
550	Thrills - Systolic		
	1 base	20	
	2 apex	8	
	blank	20,294	
551	Thrills - Diastolic		
	1 base	13	
	2 apex	6	
	blank	20,303	
552	First heart sound		
	1 normal	19,365	
	2 accentuated	144	
	3 diminished	712	
	8 blank but applicable	87	
	blank	14	
553	Second heart sound		
	1 normal	19,287	
	2 accentuated	245	
	3 diminished	680	
	8 blank but applicable	96	
	blank	14	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
554	Murmurs		See detailed notes
	1 none	19,120	
	8 blank but applicable	3	
	blank	1,199	
555	Systolic murmur(s)		
	1 functional	327	
	2 organic	708	
	8 blank but applicable	27	
	9 don't know	76	
	blank	19,184	
556	Diastolic murmur(s)		
	1 functional	2	
	2 organic	103	
	8 blank but applicable	27	
	9 don't know	2	
	blank	20,188	
	<u>Location</u>		
557	Apex - Systolic		
	1 grade 1	107	
	2 grade 2	180	
	3 grade 3	163	
	4 grade 4	61	
	5 grade 5	12	
	6 grade 6	3	
	blank	19,796	
558	Apex - Diastolic		
	1 grade 1	1	
	2 grade 2	13	
	3 grade 3	25	
	4 grade 4	7	
	5 grade 5	1	
	6 grade 6	1	
	blank	20,274	
559	Midprecordium - Systolic		
	1 grade 1	63	
	2 grade 2	157	
	3 grade 3	121	
	4 grade 4	25	
	5 grade 5	10	
	6 grade 6	2	
	blank	19,944	
560	Midprecordium - Diastolic		
	1 grade 1	0	
	2 grade 2	3	
	3 grade 3	23	
	4 grade 4	5	
	5 grade 5	0	
	6 grade 6	2	
	blank	20,289	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
561	Left base - Systolic		
	1 grade 1	58	
	2 grade 2	131	
	3 grade 3	131	
	4 grade 4	31	
	5 grade 5	7	
	6 grade 6	1	
	blank	19,963	
562	Left base - Diastolic		
	1 grade 1	0	
	2 grade 2	5	
	3 grade 3	17	
	4 grade 4	5	
	5 grade 5	0	
	6 grade 6	1	
	blank	20,294	
563	Right base - Systolic		
	1 grade 1	50	
	2 grade 2	162	
	3 grade 3	149	
	4 grade 4	50	
	5 grade 5	13	
	6 grade 6	0	
	blank	19,898	
564	Right base - Diastolic		
	1 grade 1	1	
	2 grade 2	3	
	3 grade 3	10	
	4 grade 4	8	
	5 grade 5	0	
	6 grade 6	0	
	blank	20,300	
565	Origin - Mitral		
	1 Systolic	308	
	2 diastolic	30	
	3 both	20	
	blank	19,964	
566	Origin - Aortic		
	1 systolic	320	
	2 diastolic	14	
	3 both	27	
	blank	19,961	
567	Origin - Tricuspid		
	1 systolic	21	
	2 diastolic	0	
	3 both	0	
	blank	20,301	

National Health and Nutrition Examination Survey - NHANES II Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
568	Origin - Pulmonic		
	1 systolic	86	
	2 diastolic	1	
	3 both	1	
	blank	20,234	
569	Origin - Atrial septal defect		
	1 systolic	12	
	2 diastolic	0	
	3 both	1	
	blank	20,309	
570	Origin - Ventricular septal defect		
	1 systolic	79	
	2 diastolic	0	
	3 both	0	
	blank	20,243	
571	Origin - Other		
	1 systolic	24	
	2 diastolic	1	
	3 both	5	
	blank	20,292	
572	Origin		
	9 don't know	209	
	blank	20,113	
	<u>Other cardiac or cardiovascular findings</u>		
573	1 no	19,636	See detailed notes
	2 yes	672	
	blank	14	
574	Edema		
	1 yes	222	
	blank	20,100	
575	Cyanosis		
	1 yes	51	
	blank	202,71	
576	Irregular pulse		
	1 yes	415	
	blank	19,907	
577	Blank	20,322	
578	Neck vein distension		
	1 yes	53	
	blank	20,269	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
	<u>PULSE - ARTERIAL EVALUATION</u>		Age 18 years and over See detailed notes
	<u>Palpitation</u>		
579	Right radial		
	1 normal	12,074	
	2 sclerotic	324	
	3 tortuous	19	
	4 sclerotic and tortuous	27	
	5 absent	23	
	8 blank but applicable	32	
	blank	7,823	
580	Right femoral		
	1 normal	12,005	
	2 sclerotic	323	
	3 tortuous	15	
	4 sclerotic and tortuous	23	
	5 absent	58	
	8 blank but applicable	75	
	blank	7,823	
581	Right dorsalis pedis		
	1 normal	11,279	
	2 sclerotic	405	
	3 tortuous	10	
	4 sclerotic and tortuous	23	
	5 absent	659	
	8 blank but applicable	123	
	blank	7,823	
582	Left radial		
	1 normal	12,037	
	2 sclerotic	330	
	3 tortuous	17	
	4 sclerotic and tortuous	25	
	5 absent	22	
	8 blank but applicable	68	
	blank	7,823	
583	Left femoral		
	1 normal	11,987	
	2 sclerotic	327	
	3 tortuous	15	
	4 sclerotic and tortuous	21	
	5 absent	66	
	8 blank but applicable	83	
	blank	7,823	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
584	Left dorsalis pedis		
	1 normal	10,815	
	2 sclerotic	365	
	3 tortuous	10	
	4 sclerotic and tortuous	22	
	5 absent	686	
	8 blank but applicable	601	
	blank	7,823	
	<u>Pulsations</u>		
585	Right radial		
	1 normal	12,150	
	2 diminished	201	
	3 bounding	86	
	4 absent	28	
	8 blank but applicable	34	
	blank	7,823	
586	Right femoral		
	1 normal	12,042	
	2 diminished	251	
	3 bounding	87	
	4 absent	59	
	8 blank but applicable	60	
	blank	7,823	
587	Right dorsalis pedis		
	1 normal	11,214	
	2 diminished	404	
	3 bounding	59	
	4 absent	718	
	8 blank but applicable	104	
	blank	7,823	
588	Blank	20,322	
589	Left radial		
	1 normal	12,139	
	2 diminished	205	
	3 bounding	86	
	4 absent	24	
	8 blank but applicable	45	
	blank	7,823	
590	Left femoral		
	1 normal	12,029	
	2 diminished	249	
	3 bonding	83	
	4 absent	68	
	8 blank but applicable	70	
	blank	7,823	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
591	Left dorsalis pedis		
	1 normal	11,187	
	2 diminished	397	
	3 bonding	60	
	4 absent	740	
	8 blank but applicable	115	
	blank	7,823	
592	Blank	20,322	
	<u>ABDOMINAL EVALUATION AND KIDNEY</u>		
593	1 findings	5,294	See detailed notes
	2 no findings	15,011	
	8 blank but applicable	3	
	blank	14	
594	Hepatomegaly		
	1 yes	131	
	blank	20,191	
595	Splenomegaly		
	1 yes	21	
	blank	20,301	
596	Uterine enlargement		
	1 yes	64	
	blank	20,258	
597	Inguinal hernia		
	1 yes	90	
	blank	20,232	
598	Femoral hernia		
	1 yes	1	
	blank	20,321	
599	Umbilical hernia		
	1 yes	427	
	blank	19,895	
600	Pot belly		
	1 yes	59	
	blank	20,263	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
	<u>Mass(es)</u>		
601	1 yes	82	
	blank	20,240	
602-605	Blank	20,322	
606-610	Areas		See detailed notes
	Areas 1-9 indicated	82	
	00000 blank but applicable	0	
	blank	20,240	
611	Blank	20,322	
	<u>Surgical scars</u>		
612	1 yes	4,688	
	blank	15,634	
613-617	Areas		See detailed notes
	Areas 1-9 indicated	4,688	
	00000 blank but applicable	0	
	blank	15,634	
618	Blank	20,322	
619	Costovertebral tenderness		
	1 yes	35	
	blank	20,287	
	<u>JOINTS</u>		Age 10 and over
620	1 findings	12,225	See detailed notes
	2 no findings	2,831	
	8 blank but applicable	4	
	blank	5,262	
	<u>Shoulder</u>		
621	Tender		
	1 right	55	
	2 left	38	
	3 both	59	
	blank	20,170	
622	Swelling		
	1 right	5	
	2 left	1	
	3 both	9	
	blank	20,307	
623	Deformity		
	1 right	6	
	2 left	4	
	3 both	5	
	blank	20,307	

National Health and Nutrition Examination Survey - NHANES II
Physician Examination Data

Position	Item Description and Code	Counts	Source and Notes
624	Pain on motion		
	1 right	90	
	2 left	61	
	3 both	91	
	blank	20,080	
625	Other		
	1 right	13	
	2 left	9	
	3 both	4	
	blank	20,296	
	<u>Elbow</u>		
626	Tender		
	1 right	25	
	2 left	13	
	3 both	44	
	blank	20,240	
627	Swelling		
	1 right	5	
	2 left	5	
	3 both	7	
	blank	20,305	
628	Deformity		
	1 right	34	
	2 left	17	
	3 both	8	
	blank	20,263	
629	Pain on motion		
	1 right	34	
	2 left	19	
	3 both	46	
	blank	20,223	
630	Other		
	1 right	3	
	2 left	3	
	3 both	1	
	blank	20,315	
	<u>Wrist</u>		
631	Tender		
	1 right	29	
	2 left	12	
	3 both	40	
	blank	20,241	

National Health and Nutrition Examination Survey - NHANES II Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
632	Swelling		
	1 right	8	
	2 left	6	
	3 both	14	
	blank	20,294	
633	Deformity		
	1 right	28	
	2 left	12	
	3 both	18	
	blank	20,264	
634	Pain on motion		
	1 right	27	
	2 left	17	
	3 both	49	
	blank	20,229	
635	Other		
	1 right	2	
	2 left	3	
	3 both	0	
	blank	20,317	
	<u>Metacarpophalangeal</u>		Number involved
636	Tender - Right		
	1-5 joints involved	73	
	blank	20,249	
637	Tender - Left		
	1-5 joints involved	66	
	blank	20,256	
638	Swelling - Right		
	1-5 joints involved	62	
	blank	20,260	
639	Swelling - Left		
	1-5 joints involved	55	
	blank	20,267	
640	Deformity - Right		
	1-5 joints involved	125	
	blank	20,197	
641	Deformity - Left		
	1-5 joints involved	113	
	blank	20,209	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
642	Pain on motion - Right		
	1-5 joints involved	65	
	blank	20,257	
643	Pain on motion - Left		
	1-5 joints involved	64	
	blank	20,258	
644	Other - Right		
	1-5 joints involved	5	
	blank	20,317	
645	Other - Left		
	1-5 joints involved	5	
	blank	20,317	
	<u>Proximal Interphalangeal</u>		Number involved
646	Tender - Right		
	1-5 joints involved	106	
	blank	20,216	
647	Tender - Left		
	1-5 joints involved	95	
	blank	20,227	
648	Swelling - Right		
	1-5 joints involved	108	
	blank	20,214	
649	Swelling - Left		
	1-5 joints involved	98	
	blank	20,224	
650	Deformity - Right		
	1-5 joints involved	230	
	blank	20,092	
651	Deformity - Left		
	1-5 joints involved	198	
	blank	20,124	
652	Pain on motion - Right		
	1-5 joints involved	102	
	blank	20,220	
653	Pain on motion - Left		
	1-5 joints involved	92	
	blank	20,230	

National Health and Nutrition Examination Survey - NHANES II Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
654	Other - Right		
	1-5 joints involved	4	
	blank	20,318	
655	Other - Left		
	1-5 joints involved	4	
	blank	20,318	
	<u>Distal Interphalangeal</u>		Number involved
656	Tender - Right		
	1-5 joints involved	79	
	blank	20,243	
657	Tender - Left		
	1-5 joints involved	70	
	blank	20,252	
658	Swelling - Right		
	1-5 joints involved	59	
	blank	20,263	
659	Swelling - Left		
	1-5 joints involved	52	
	blank	20,270	
660	Deformity - Right		
	1-5 joints involved	175	
	blank	20,147	
661	Deformity - Left		
	1-5 joints involved	151	
	blank	20,171	
662	Heberden's nodes - Right		
	1-5 joints involved	1,395	
	blank	18,927	
663	Heberden's nodes - Left		
	1-5 joints involved	1,277	
	blank	19,045	
664	Pain on motion - Right		
	1-5 joints involved	65	
	blank	20,257	
665	Pain on motion - Left		
	1-5 joints involved	62	
	blank	20,260	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
666	Other - Right		
	1-5 joints involved	6	
	blank	20,316	
667	Other - Left		
	1-5 joints involved	7	
	blank	20,315	
	<u>Ankle</u>		
668	Tender		
	1 right	30	
	2 left	24	
	3 both	55	
	blank	20,213	
669	Swelling		
	1 right	25	
	2 left	23	
	3 both	48	
	blank	20,226	
670	Deformity		
	1 right	37	
	2 left	37	
	3 both	37	
	blank	20,211	
671	Pain on motion		
	1 right	34	
	2 left	19	
	3 both	59	
	blank	20,210	
672	Other		
	1 right	6	
	2 left	4	
	3 both	4	
	blank	20,308	
	<u>Feet</u>		
673	Tender		
	1 right	17	
	2 left	9	
	3 both	52	
	blank	20,244	
674	Swelling		
	1 right	7	
	2 left	5	
	3 both	28	
	blank	20,282	

National Health and Nutrition Examination Survey - NHANES II
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Position	Item Description and Code	Counts	Source and Notes
675	Deformity		
	1 right	17	
	2 left	14	
	3 both	107	
	blank	20,184	
676	Pain on motion		
	1 right	13	
	2 left	11	
	3 both	51	
	blank	20,247	
677	Other		
	1 right	3	
	2 left	2	
	3 both	6	
	blank	20,311	
	<u>Knees</u>		
678	Tender		
	1 right	83	
	2 left	69	
	3 both	149	
	blank	20,021	
679	Swelling		
	1 right	50	
	2 left	43	
	3 both	86	
	blank	20,143	
680	Deformity		
	1 right	35	
	2 left	41	
	3 both	174	
	blank	20,072	
681	Pain on motion		
	1 right	127	
	2 left	93	
	3 both	206	
	blank	19,896	
682	Other		
	1 right	24	
	2 left	29	
	3 both	76	
	blank	20,193	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
	<u>Hips</u>		
683	Tender		
	1 right	52	
	2 left	33	
	3 both	86	
	blank	20,151	
684	Swelling		
	1 right	2	
	2 left	2	
	3 both	9	
	blank	20,309	
685	Deformity		
	1 right	18	
	2 left	13	
	3 both	21	
	blank	20,270	
686	Pain on motion		
	1 right	79	
	2 left	70	
	3 both	151	
	blank	20,022	
687	Other		
	1 right	19	
	2 left	13	
	3 both	21	
	blank	20,269	
	<u>BACK</u>		
688	1 no findings	17,389	See detailed notes
	2 findings	2,916	
	8 blank but applicable	3	
	blank	14	
689	Scoliosis		
	1 yes	685	
	blank	19,637	
690	Kyphosis		
	1 yes	873	
	blank	19,449	
691	Lordosis		
	1 yes	264	
	blank	20,058	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
692	Tenderness - Sciatic notch		
	1 right	42	
	2 left	29	
	3 both	48	
	blank	20,203	
693	Tenderness - Sacroiliac		
	1 right	58	
	2 left	37	
	3 both	76	
	blank	20,151	
694	Blank	20,322	
	<u>Limitation of Motion</u>		
695	Thoracic spine		
	1 yes	858	
	blank	19,464	
696	Lumbar spine, right lateral flexion		
	1 yes	986	
	blank	19,336	
697	Lumbar spine, left lateral flexion		
	1 yes	977	
	blank	19,345	
698	Full extension		
	1 yes	1011	
	blank	19,311	
	<u>PAIN ON MOTION</u>		
699	1 negative	2,024	See detailed notes
	2 positive	891	
	8 blank but applicable	1	
	blank	17,406	
	<u>Pain on flexion - Location</u>		
700	Cervical - Severity of pain		
	0 none	30	
	1 doubtful	16	
	2 minimal	112	
	3 moderate	152	
	4 maximal	14	
	8 blank but applicable	567	
	blank	19,431	

National Health and Nutrition Examination Survey - NHANES II Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
701	Thoracic		
	1 yes	92	
	blank	20,230	
702	Low back		
	1 yes	235	
	blank	20,087	
703	Diffuse		
	1 yes	96	
	blank	20,226	
704	Uncertain		
	1 yes	8	
	blank	20,314	
	<u>Pain on extension - Location</u>		
705	Cervical - Severity of pain		
	0 none	24	
	1 doubtful	15	
	2 minimal	129	
	3 moderate	168	
	4 maximal	14	
	8 blank but applicable	541	
	blank	19,431	
706	Thoracic		
	1 yes	99	
	blank	20,223	
707	Low back		
	1 yes	283	
	blank	20,039	
708	Diffuse		
	1 yes	93	
	blank	20,229	
709	Uncertain		
	1 yes	7	
	blank	20,315	
	<u>Pain on right lateral bending - Location</u>		
710	Thoracic		
	1 yes	98	
	blank	20,224	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
711	Low back		
	1 yes	270	
	blank	20,052	
712	Diffuse		
	1 yes	85	
	blank	20,237	
713	Uncertain		
	1 yes	5	
	blank	20,317	
<u>Pain on left lateral bending - Location</u>			
714	Thoracic		
	1 yes	98	
	blank	20,224	
715	Low back		
	1 yes	301	
	blank	20,021	
716	Diffuse		
	1 yes	82	
	blank	20,240	
717	Uncertain		
	1 yes	5	
	blank	20,317	
<u>Pain on right rotation - Location</u>			
718	Thoracic		
	1 yes	100	
	blank	20,222	
719	Low back		
	1 yes	202	
	blank	20,120	
720	Diffuse		
	1 yes	80	
	blank	20,242	
721	Uncertain		
	1 yes	2	
	blank	20,320	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
<u>Pain on left rotation - Location</u>			
722	Thoracic		
	1 yes	96	
	blank	20,224	
723	Low back		
	1 yes	195	
	blank	20,127	
724	Diffuse		
	1 yes	80	
	blank	20,242	
725	Uncertain		
	1 yes	2	
	blank	20,320	
<u>STRAIGHT LEG RAISING TEST</u>			
726	Right leg		
	1 negative	19,888	
	2 positive	312	
	8 blank but applicable	108	
	blank	14	
727	Left leg		
	1 negative	19,871	
	2 positive	332	
	8 blank but applicable	105	
	blank	14	
<u>Increase on ankle dorsiflexion</u>			
728	Right		
	1 yes	208	
	2 no	16,230	
	8 blank but applicable	3,870	
	blank	14	
729	Left		
	1 yes	224	
	2 no	16,218	
	8 blank but applicable	3,866	
	blank	14	
730	Blank	20,322	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
<u>MUSCULOSKELETAL EVALUATION</u>			See detailed notes
731	1 findings	1,567	
	2 no findings	18,738	
	8 blank but applicable	3	
	blank	14	
732	Bowed legs		
	1 yes	812	
	blank	19,510	
733	Knock knees		
	1 yes	755	
	blank	19,567	
734	Epiphysial enlargement, wrists		
	1 yes	1	
	blank	20,321	
735	Abduction of hips (Ortoloni's maneuver)		Under age 3
	1 yes	0	
	blank	20,322	
736	Blank	20,322	
<u>NEUROLOGICAL EVALUATION</u>			See detailed notes
737	1 findings	2,027	
	2 no findings	18,278	
	8 blank but applicable	3	
	blank	14	
738	Absent knee jerks		
	1 yes	589	
	blank	19,733	
739	Absent ankle jerks		
	1 yes	707	
	blank	19,615	
740	Positive Chvostek sign		
	1 yes	998	
	blank	19,324	
741	Apathy		
	1 yes	33	
	blank	20,289	
742	Marked hyperirritability		
	1 yes	89	
	blank	20,233	
743	Blank	20,322	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
<u>SKIN EVALUATION</u>			
744	1 findings	671	See detailed notes
	2 no findings	19,634	
	8 blank but applicable	3	
	blank	14	
745	Follicular hyperkeratosis, arms		
	1 yes	137	
	blank	20,185	
746	Hyperpigmentation, hands and face		
	1 yes	60	
	blank	20,262	
747	Dry or scaling skin		
	1 yes	362	
	blank	19,960	
748	Perifolliculosis		
	1 yes	17	
	blank	20,305	
749	Petechiae		
	1 yes	60	
	blank	20,262	
750	Mosaic skin		
	1 yes	7	
	blank	20,315	
751	Pellagrous dermatitis		
	1 yes	3	
	blank	20,319	
752	Ecchymoses		
	1 yes	67	
	blank	20,255	
753	Edema		
	1 yes	53	
	blank	20,269	
754	Blank	20,322	

National Health and Nutrition Examination Survey - NHANES II
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Position	Item Description and Code	Counts	Source and Notes
<u>EXAMINER'S SUBJECTIVE IMPRESSION OF NUTRITIONAL STATUS</u>			
755	1 normal nutrition	17,754	
	2 abnormal nutrition	2,527	
	8 blank but applicable	27	
	blank	14	
756	1 obesity	2,949	
	2 no obesity	17,337	
	8 blank but applicable	22	
	blank	14	
<u>BLOOD PRESSURE</u>			
			See detailed notes
<u>Cuff width</u>			
757	1 adult	14,476	
	2 child	1,580	
	8 blank but applicable	139	
	blank	4,125	
<u>Time</u>			
758-761	0001-1259	16,113	
	8888 blank but applicable	84	
	blank	4,125	
762	1 AM	8,538	See detailed notes
	2 PM	7,524	
	8 blank but applicable	135	
	blank	4,125	
<u>Blood Pressure</u>			
763-765	Systolic - Recumbent		Age 6 and over
	68-300 mm Hg	16,084	
	888 blank but applicable	113	
	blank	4,125	
766-767	Blank	20,322	
768-770	Diastolic - Recumbent		
	35-150 mm Hg	16,020	
	888 blank but applicable	177	
	blank	4,125	
771-773	Systolic - Sitting		
	65-300 mm Hg	16,074	
	888 blank but applicable	123	
	blank	4,125	
774-776	Diastolic - Sitting		
	35-150 mm Hg	16,035	
	888 blank but applicable	162	
	blank	4,125	
777-778	Examiner no.		
	02-88 Examiner Number	16,196	
	00 blank but applicable	1	
	blank	4,125	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
<u>SUMMARY OF DIAGNOSTIC IMPRESSIONS</u>			
779	1 normal: no abnormal findings	8,671	See detailed notes
	2 abnormal: significant findings noted	11,632	
	8 blank but applicable	5	
	blank	14	
	<u>Code a</u>		
780	Severity		
	1 minimal	4,806	
	2 moderate	5,304	
	3 severe	1,360	
	8 blank but applicable	162	
	blank	8,690	
781	Certainty		
	0 Not at all certain - 9 Extremely certain	11,047	
	"-" blank but applicable	135	
	blank	8,690	
782-785	ICDA code		
	Code a	11,632	
	8888 blank but applicable	0	
	blank	8,690	
	<u>Code b</u>		
786	Severity		
	1 minimal	2,382	
	2 moderate	3,186	
	3 severe	813	
	8 blank but applicable	110	
	blank	13,831	
787	Certainty		
	0 Not at all certain - 9 Extremely certain	6,439	
	"-" blank but applicable	52	
	blank	13,831	
788-791	ICDA code		
	Code b	6,491	
	8888 blank but applicable	0	
	blank	13,831	
	<u>Code c</u>		
792	Severity		
	1 minimal	1,265	
	2 moderate	1,905	
	3 severe	462	
	8 blank but applicable	71	
	blank	16,619	

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Position	Item Description and Code	Counts	Source and Notes
793	Certainty		
	0 Not at all certain - 9 Extremely certain	3,662	
	"-" blank but applicable	41	
	blank	16,619	
794-797	ICDA code		
	Code c	3,703	
	8888 blank but applicable	0	
	blank	16,619	
	<u>Code d</u>		
798	Severity		
	1 minimal	659	
	2 moderate	1,145	
	3 severe	294	
	8 blank but applicable	34	
	blank	18,190	
799	Certainty		
	0 Not at all certain - 9 Extremely certain	2,106	
	"-" blank but applicable	26	
	blank	18,190	
800-803	ICDA code		
	Code d	2,132	
	blank	18,190	
	<u>Code e</u>		
804	Severity		
	1 minimal	374	
	2 moderate	635	
	3 severe	176	
	8 blank but applicable	24	
	blank	19,113	
805	Certainty		
	0 Not at all certain - 9 Extremely certain	1,196	
	'-' blank but applicable	13	
	blank	19,113	
806-809	ICDA code		
	Code e	1,209	
	8888 blank but applicable	0	
	blank	19,113	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
	<u>Code f</u>		
810	Severity		
	1 minimal	180	
	2 moderate	359	
	3 severe	97	
	8 blank but applicable	16	
	blank	19,670	
811	Certainty		
	0 Not at all certain - 9 Extremely certain	643	
	'-' blank but applicable	9	
	blank	19,670	
812-815	ICDA code		
	Code f	652	
	8 blank but applicable	0	
	blank	19,670	
	<u>Code g</u>		
816	Severity		
	1 minimal	102	
	2 moderate	193	
	3 severe	52	
	8 blank but applicable	8	
	blank	19,967	
817	Certainty		
	0 Not at all certain - 9 Extremely certain	349	
	'-' blank but applicable	6	
	blank	19,967	
818-821	ICDA code		
	Code g	355	
	8888 blank but applicable	19,967	
	<u>Code h</u>		
822	Severity		
	1 minimal	48	
	2 moderate	86	
	3 severe	28	
	8 blank but applicable	4	
	blank	20,156	
823	Certainty		
	0 Not at all certain - 9 Extremely certain	164	
	'-' blank but applicable	2	
	blank	20,156	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
824-827	ICDA code		
	Code h	166	
	blank	20,156	
	<u>Code i</u>		
828	Severity		
	1 minimal	24	
	2 moderate	45	
	3 severe	17	
	8 blank but applicable	4	
	blank	20,232	
829	Certainty		
	0 Not at all certain - 9 Extremely certain	87	
	'-' blank but applicable	3	
	blank	20,232	
830-833	ICDA code		
	Code i	90	
	8888 blank but applicable	0	
	blank	20,232	
	<u>Code j</u>		
834	Severity		
	1 minimal	5	
	2 moderate	19	
	3 severe 10		
	8 blank but applicable	1	
	blank	20,287	
835	Certainty		
	0 Not at all certain - 9 Extremely certain	34	
	'-' blank but applicable	1	
	blank	20,287	
836-839	ICDA code		
	Code j	35	
	blank	20,287	
	<u>Code k</u>		
840	Severity		
	1 minimal	4	
	2 moderate	6	
	3 severe	3	
	blank	20,309	
841	Certainty		
	0 Not at all certain - 9 Extremely certain	13	
	blank	20,309	

National Health and Nutrition Examination Survey - NHANES II			
Physician Examination Data			
Position	Item Description and Code	Counts	Source and Notes
842-845	ICDA code		
	Code k	13	
	blank	20,309	
	<u>Code l</u>		
846	Severity		
	1 minimal	3	
	2 moderate	1	
	blank	20,318	
847	Certainty		
	0 Not at all certain - 9 Extremely certain	4	
	blank	20,318	
848-851	ICDA code		
	Code l	4	
	blank	20,318	
	<u>Code m</u>		
852	Severity		
	2 moderate	2	
	8 blank but applicable	0	
	blank	20,320	
853	Certainty		
	0 Not at all certain - 9 Extremely certain	2	
	'-' blank but applicable	0	
	blank	20,320	
854-857	ICDA code		
	Code m	2	
	blank	20,320	
	<u>Code n</u>		
858	Severity		
	blank	20,322	
859	Certainty		
	blank	20,322	
860-863	ICDA code		
	blank	20,322	

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Position	Item Description and Code	Counts	Source and Notes
	<u>Code 0</u>		
864	Severity		
	blank	20,322	
865	Certainty		
	blank	20,322	
866-869	ICDA code		
	blank	20,322	
870-871	Examiner Number		
	30-49 Physician number	20,286	
	88 blank but applicable	20	
	blank	14	
872-900	Blank	20,322	

IV. DETAILED NOTES

TAPE POSITION 11

Size of Place

Size of place classification was derived from the 1970 decennial census of the population. According to the definition used in the 1970 census, the urban population comprised all persons living in (a) places of 2,500 inhabitants or more incorporated as cities, boroughs (except Alaska), villages and towns (except towns in New York, New England states, and Wisconsin), but excluding those persons living in the rural portions of extended cities; (b) unincorporated places of 2,500 inhabitants or more; and (c) other territories included in urbanized areas. The remaining population was classified as rural.

Urban areas are further classified by population size for places within urbanized areas and other places outside urbanized areas.

TAPE POSITION 12

SMSA-Not SMSA

Except in New England, a Standard Metropolitan Statistical Area is basically a county or a group of contiguous counties which contains at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. In addition to the county or counties containing such a city or cities, contiguous counties are included in an SMSA if, according to the 1970 census, they are socially and economically integrated with the central city. Each SMSA must include at least one central city, and the complete title of an SMSA identifies the central city or cities. In New England, SMSA's consist of towns and cities, rather than counties.

TAPE POSITIONS 37-41

Family Unit Number

All related sample persons in the same family unit have the same computer-generated family unit code. This will enable analysis of individual family units.

TAPE POSITIONS 56, 206, AND 256

Race

The race of the respondent was marked by observation. The interviewers were instructed to assume that the race of all related persons was the same as the respondent unless otherwise learned. The race categories were "White", "Black" or "Other". If the appropriate category could not be marked by observation, then race was asked. Interviewers were instructed to record persons who responded with something other than White or Black, such as Japanese, Chinese, American Indian, Korean, Hindu, Eskimo, etc. as "Other" and to include Mexicans, Puerto Ricans and other persons of Latin American descent in "White" unless definitely Black, American Indian, or of other nonwhite race.

TAPE POSITIONS 57-58 AND 257-258

United States

<u>Name of Place</u>	<u>Code</u>
Alabama.....	01
Alaska.....	02
Arizona.....	04
Arkansas.....	05
California.....	06
Colorado.....	08
Connecticut.....	09
Delaware.....	10
District of Columbia.....	11
Florida.....	12
Georgia.....	13
Hawaii.....	15
Idaho.....	16
Illinois.....	17
Indiana.....	18
Iowa.....	19
Kansas.....	20
Kentucky.....	21
Louisiana.....	22
Maine.....	23
Maryland.....	24
Massachusetts.....	25
Michigan.....	26
Minnesota.....	27
Mississippi.....	28
Missouri.....	29
Montana.....	30
Nebraska.....	31
Nevada.....	32
New Hampshire.....	33
New Jersey.....	34
New Mexico.....	35
New York.....	36
North Carolina.....	37
North Dakota.....	38
Ohio.....	39
Oklahoma.....	40
Oregon.....	41
Pennsylvania.....	42
Rhode Island.....	44
South Carolina.....	45
South Dakota.....	46
Tennessee.....	47
Texas.....	48

TAPE POSITIONS 57-58 AND 257-258 (cont.)

<u>Name of Place</u>	<u>Code</u>
Utah.....	49
Vermont.....	50
Virginia.....	51
Washington.....	53
West Virginia.....	54
Wisconsin.....	55
Wyoming.....	56

Outlying Areas of the United States

<u>Name of Place</u>	<u>Code</u>	<u>Description</u>
American Samoa	60	U.S. territory in the Pacific
Canal Zone	61	Territory in Panama leased by U.S.
Canton and Enderbury Island	62	Under common US-UK administration
Guam	66	U.S. territory in the Pacific
Johnston Atoll		U.S. territory in the Pacific, includes Sand Island
Midway Islands	71	U.S. territory in the Pacific
Puerto Rico	72	Commonwealth associated with the U.S.
Swan Islands	74	U.S. territory in the Carribbean
Trust Territories of the Pacific Islands	75	U.S. administered, includes Caroline, Mariana, and Marshall Island groups
U.S. Miscellaneous Carribbean Islands	76	Includes Navassa Islands, Quito Sueno Bank, Roncador Cay, Serrana Bank, Serranilla Bank
U.S. Miscellaneous Pacific Islands	77	Includes Kingman Reef, Howland, Baker and Jarvis Islands, Palmyra Atoll
Virgin Islands	78	U.S. territory in the Carribbean
Wake Island	79	U.S. territory in the Pacific

Outside of United States

North America	91
South America	92
Europe	93
Africa	94
Asia	95
Australasia	96
Pacific Islands	97

TAPE POSITIONS 73-75, 76-78, 273-275 AND 276-278

Industry and Occupation Codes

Occupation may be defined as the principal job or business. For this survey, the principal job or business of a respondent is defined in one of the following ways: if the person worked during the two week interview period or had a job or business, the question concerning occupation (or work) applies to the job during that period. If the respondent held more than one job, the question is directed to the one at which the most time was spent. It refers to the one considered most important when equal time is spent at each job. A person who has not begun work at a new job, is looking for work, or is on layoff from work is questioned about the last full-time civilian job. A full-time job is defined as one at which the person spent 35 or more hours per week and which lasted two consecutive weeks or more. A person who has a job but has not yet reported to it or a person who has never had a job or business is classified as a "new worker".

The 1970 census of population Alphabetical Index of Industries and Occupations was used in the coding of both the industry and occupation (Library of Congress Number 74-612012, for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Stock Number 0301-2283).

TAPE POSITIONS 107-108

Family Income Group

The respondent was handed a card with twelve income ranges listed as Group A to Group L and asked "Which of these income groups represents your total combined family income for the past 12 months, that is, yours, your ...'s, etc? Include income from all sources such as wages, salaries, social security or retirement benefits, help from relatives, rent from property and so forth."

If the respondent answered Group A through G, that is with an income less than \$7,000, then questions 21 and 22 detailing exact sources and amounts of income were asked; otherwise, these questions were skipped.

No effort was made to reconcile amounts reported in detailed questions 21 and 22 with the categorical response to the family income group question. During the survey time period no adjustments to the income groups or \$7,000 value were made to account for inflation.

TAPE POSITION 207

Farm, non-farm

This position contains a recode, which combines data on land use (position 25), size (position 26), and amount of sales of farm produce and livestock (positions 27 and 28).

Code 1: Farm: Rural land (coded 2 in position 25) which consisted of 10 or more acres (coded 1 in position 26) with crop sales of \$50 or more (coded 1 in position 27).

OR

Rural land (coded 2 in position 25) with crop sales of \$250 or more (coded 1 in position 28).

Code 2: Non-farm: All other rural land (coded 2 in position 25) as well as land classified as urban (coded 1 in position 25).

TAPE POSITION 209

Region

The United States was divided into four broad geographic regions of approximately equal population. Those regions, which deviate somewhat from the groups used by the Bureau of Census, are as follows:

<u>Region</u>	<u>States Included</u>
Northeast	Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Pennsylvania
South	Delaware, Maryland, District of Columbia, West Virginia, Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Arkansas
Midwest	Ohio, Illinois, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Missouri
West	Washington, Oregon, California, Nevada, New Mexico, Arizona, Texas, Oklahoma, Kansas, Nebraska, North Dakota, South Dakota, Idaho, Utah, Colorado, Montana, Wyoming, Alaska, Hawaii

TAPE POSITIONS 210-212

Poverty Index

Income status was determined by the Poverty Income Ratio (PIR). Poverty statistics published in the Bureau of the Census reports¹⁰⁻¹⁴ were based on the poverty index developed by the Social Security Administration (SSA) in 1964. (For a detailed discussion of the SSA poverty standards, see references 15 and 16.) Modifications in the definition of poverty were adopted in 1969.¹⁷ The standard data series in poverty for statistical use by all executive departments and establishments has been established.¹⁸

The two components of the PIR are the total income of the household (numerator: the median of the income group for incomes \$7,000 and above; the sum of the component parts of the income questions for incomes under \$7,000) and a multiple of the total income necessary to maintain a family with given characteristics on a nutritionally adequate food plan⁹⁻¹³ (denominator). The dollar value of the denominator of the PIR is constructed from a food plan (economy plan) necessary to maintain minimum recommended daily nutritional requirements. The economy plan is designated by the U.S. Department of Agriculture for "emergency or temporary use when funds are low."

For families of three or more persons, the poverty level was set at three times the cost of the economy food plan. For smaller families and persons living alone, the cost of the economy food plan was adjusted by the relatively higher fixed expenses of these smaller households.

The denominator or poverty income cutoff adjusts the family poverty income maintenance requirements by the family size, the sex of the family head, the age of the family head in families with one or two members, and the place of

residence (farm, nonfarm). Annual revisions of the poverty income cutoffs are based on the changes in the average cost of living as reflected in the Consumer Price Index.

As shown in the tables, the annual income considered to be the poverty level increases as the family size increases. A family with any combination of characteristics and with the same income as shown in the table has been designated as having a PIR or poverty level of 1.0. The same family with twice the income found in the table would have a PIR of 2.0. Ratios of less than 1.0 can be described as "below poverty" and ratios greater than or equal to 1.0, as "at or above poverty".

Poverty thresholds are computed on a national basis only. No attempt has been made to adjust these thresholds for regional, State, or other variations in the cost of living (except for the farm, nonfarm difference). None of the noncash public welfare benefits such as food stamp bonuses are included in the income of the low income families receiving these benefits. PIR has been adjusted by year (see tables) and accounts in some part for inflation.

A. Weighted average thresholds--poverty cutoffs in 1976, by size of family and sex of head, by farm-nonfarm residence

Size of family unit	Nonfarm				Farm		
	Total (dollars)	Total (dollars)	Male head (dollars)	Female head (dollars)	Total (dollars)	Male head (dollars)	Female head (dollars)
1 person (unrelated individual)...	2 877	2 884	3 016	2 788	2 438	2 532	2 348
14 to 64 years.....	2 954	2 959	3 069	2 840	2 542	2 608	2 413
65 years and over.....	2 720	2 730	2 758	2 722	2 322	2 344	2 313
2 persons.....	3 688	3 711	3 721	3 660	3 128	3 133	3 033
Head 14 to 64 years.....	3 806	3 826	3 846	3 733	3 267	3 271	3 159
Head 65 years and over.....	3 417	3 445	3 447	3 428	2 928	2 928	2 922
3 persons.....	4 515	4 540	4 565	4 414	3 858	3 864	3 734
4 persons.....	5 786	5 815	5 818	5 790	4 950	4 953	4 840
5 persons.....	6 838	6 876	6 884	6 799	5 870	5 871	5 847
6 persons.....	7 706	7 760	7 766	7 709	6 585	6 584	6 607
7 persons or more.....	9 505	9 588	9 622	9 375	8 072	8 068	8 428

B. Weighted average thresholds--poverty cutoffs in 1977, by size of family and sex of head, by farm-nonfarm residence

Size of family unit	Nonfarm				Farm		
	Total (dollars)	Total (dollars)	Male head (dollars)	Female head (dollars)	Total (dollars)	Male head (dollars)	Female head (dollars)
1 person (unrelated individual)...	3 067	3 075	3 214	2 969	2 588	2 672	2 498
14 to 64 years.....	3 147	3 152	3 267	3 023	2 709	2 776	2 569
65 years and over.....	2 895	2 906	2 936	2 898	2 475	2 495	2 563
2 persons.....	3 928	3 951	3 961	3 907	3 318	3 325	3 176
Head 14 to 64 years.....	4 054	4 072	4 095	3 981	3 466	3 474	3 278
Head 65 years and over.....	3 637	3 666	3 670	3 646	3 128	3 131	3 079
3 persons.....	4 806	4 833	4 860	4 708	4 093	4 110	3 893
4 persons.....	6 157	6 191	6 195	6 162	5 273	5 274	5 213
5 persons.....	7 279	7 320	7 329	7 238	6 247	6 247	6 237
6 persons.....	8 208	8 261	8 268	8 197	7 026	7 026	7 040
7 persons or more.....	10 137	10 216	10 249	9 995	8 708	8 706	8 738

C. Weighted average thresholds--poverty cutoffs in 1978, by size of family and sex of head, by farm-nonfarm residence

Size of family unit	Nonfarm				Farm		
	Total (dollars)	Total (dollars)	Male head (dollars)	Female head (dollars)	Total (dollars)	Male head (dollars)	Female head (dollars)
1 person (unrelated individual)...	3 302	3 311	3 460	3 196	2 795	2 898	2 690
14 to 64 years.....	3 386	3 392	3 516	3 253	2 913	2 987	2 764
65 years and over.....	3 116	3 127	3 159	3 118	2 661	2 685	2 650
2 persons.....	4 225	4 249	4 258	4 206	3 578	3 582	3 497
Head 14 to 64 years.....	4 363	4 383	4 407	4 286	3 731	3 737	3 614
Head 65 years and over.....	3 917	3 944	3 948	3 923	3 352	3 354	3 313
3 persons.....	5 178	5 201	5 231	5 065	4 413	4 430	4 216
4 persons.....	6 628	6 662	6 665	6 632	5 681	5 683	5 622
5 persons.....	7 833	7 880	7 888	7 806	6 714	6 714	6 700
6 persons.....	8 825	8 891	8 895	8 852	7 541	7 543	7 462
7 persons or more.....	10 926	11 002	11 038	10 765	9 373	9 386	8 813

D. Weighted average thresholds--poverty cutoffs in 1979, by size and type of family and farm-nonfarm residence

Size of family unit	Nonfarm				Farm		
	Total (dollars)	Total (dollars)	Families with female hhldr, no husband present ¹ (dollars)	All other families ² (dollars)	Total (dollars)	Families with female hhldr, no husband present ¹ (dollars)	All other families ² (dollars)
1 person (unrelated individual)...	3 683	3 689	3 556	3 855	3 138	3 001	3 236
15 to 64 years.....	3 773	3 778	3 619	3 912	3 254	3 076	3 324
65 years and over.....	3 472	3 479	3 469	3 515	2 963	2 948	2 988
2 persons.....	4 702	4 725	4 669	4 737	3 987	3 917	3 991
Householder 15 to 64 years.....	4 858	4 878	4 762	4 905	4 156	4 027	4 163
Householder 65 years and over...	4 364	4 390	4 362	4 394	3 730	3 686	3 732
3 persons.....	5 763	5 784	5 624	5 820	4 917	4 680	4 928
4 persons.....	7 386	7 412	7 381	7 416	6 329	6 261	6 332
5 persons.....	8 736	8 775	8 690	8 785	7 492	7 509	7 492
6 persons.....	9 849	9 914	9 843	9 922	8 424	8 309	8 428
7 persons or more.....	12 212	12 280	12 037	12 322	10 533	10 178	10 547

1 Includes female unrelated individuals.

2 Includes male unrelated individuals.

E. Weighted average thresholds--poverty cutoffs in 1980, by size and type of family, by farm-nonfarm residence

Size of family unit	Nonfarm				Farm		
	Total (dollars)	Total (dollars)	Families with female hhdr, no husband present ¹ (dollars)	All other families ² (dollars)	Total (dollars)	Families with female hhdr, no husband present ¹ (dollars)	All other families ² (dollars)
1 person (unrelated individual)...	4 184	4 190	4 037	4 379	3 539	3 392	3 680
15 to 64 years.....	4 286	4 290	4 109	4 441	3 693	3 492	3 773
65 years and over.....	3 941	3 949	3 938	3 990	3 359	3 347	3 392
2 persons.....	5 338	5 363	5 316	5 373	4 502	4 302	4 513
Householder 15 to 64 years.....	5 518	5 537	5 415	5 568	4 714	4 497	4 721
Householder 65 years and over...	4 954	4 983	4 946	4 988	4 233	4 185	4 237
3 persons.....	6 539	6 565	6 386	6 608	5 573	5 271	5 587
4 persons.....	8 385	8 414	8 382	8 418	7 170	7 152	7 170
5 persons.....	9 923	9 966	9 878	9 976	8 472	8 373	8 474
6 persons.....	11 215	11 269	11 227	11 274	9 613	9 168	9 625
7 persons or more.....	13 883	13 955	13 757	13 986	11 915	12 133	11 889

1 Includes female unrelated individuals.
 2 Includes male unrelated individuals.

TAPE POSITIONS 282-317

Sample Weights

A multistage estimation procedure was used to calculate the various NHANES II subsample sample weights that are necessary to use in any analysis of the data. The procedure has three basic components: 1) inflation by reciprocals of the probabilities of selection, 2) adjustment for nonresponse, and 3) poststratification ratio adjustment by age-sex-race. A brief description of each component is as follows:

Inflation by reciprocals of the sampling probabilities. Since the survey utilized a three-stage sample design, there were three probabilities of selection: 1) the probability of selecting the PSU, 2) the probability of selecting a segment and housing unit, and 3) the probability of selecting a sample person.

Adjustment for nonresponse. Estimates from the NHANES II data were adjusted to account for sample persons who were not examined. The estimates were inflated by a multiplication factor calculated within five selected income groups, three age groups, four regions, and standard metropolitan statistical area (SMSA) or non-SMSA. The numerator of these factors was the sum of the weights for sample persons resulting from the reciprocal of the probability of selection, and the denominator was the sum of the weights for examined persons also resulting from the reciprocals of the sampling probabilities.

Poststratification by age-sex-race. The estimates were ratio adjusted within each of 76 age-sex-race cells to an independent estimate, provided by the U.S. Bureau of the Census, of the population of each cell as of March 1, 1978, (approximate mid-point of the survey). The ratio adjustment was a multiplication factor of which the numerator was the U.S. population

and the denominator was the sum of the weights adjusted for nonresponse for examined persons. This ratio estimation process makes the sample more closely representative of the civilian, noninstitutionalized population of the U.S.

Potential bias of nonresponse. Usually a sizeable number of sample persons who initially are willing to complete the household information and some of the medical history questionnaire subsequently will not participate in the examination. This creates the potential for bias if these persons differ from other sample persons with respect to the variables being studied. Intense efforts were undertaken during NHANES II to develop and implement standard procedures and inducements that would reduce the number of nonrespondents and thereby reduce the potential for bias.

The user needs to be aware of and should explore the potential bias for nonresponse in any analysis of the NHANES II data.

TAPE POSITION 407

Physician's examination form blank

Survey participants who completed other components of the examination but for whom the physician's examination form is blank are indicated with a "1" in this position. Their records are blank in positions 408-900.

TAPE POSITION 408

Pulse

Any pulse value less than 30 was changed to "888", blank but applicable.
Pulse values greater than 150 were left as stated by the examiner; typically, values in the higher ranges were accompanied by comments such as "crying baby".

TAPE POSITIONS 411-417, 757-776

Blood Pressure

At the beginning of the physical examination the physician took the sample person's blood pressure while the sample person was in a sitting position. The sample person's blood pressure was taken twice more at the end of the exam, once while the sample person was recumbent and again while sitting. The following guidelines, based on the American Heart Association's "Recommendations for Human Blood Pressure Determinations by Sphygmomanometers" (Committee to Revise Standardization of High Blood Pressure Readings, New York, American Heart Association, October 1951) were generally observed:

1. The cuff was at least 20 percent wider than the diameter of the arm or covered approximately two-thirds of the arm. (An adult 13 cm. cuff and a pediatric 9.5 cm. cuff were provided.)
2. The manometer was at eye level with the physician.
3. The meniscus of the mercury instruments was checked weekly for zero-level calibration.
4. While measuring, the rate of falling pressure was maintained 2-3 mm. Hg per heartbeat, which was slow enough to detect the first and last sounds but sufficiently rapid to avoid intermittent trapping of blood between systolic and diastolic levels.
5. For diastolic pressure, the level was recorded at the point of complete cessation of Korotkoff's sounds or, if there was no cessation, the point of muffling.
6. Measurements were recorded to the nearest 2 mm. on the scale.

TAPE POSITION 417, 757

Cuff Width

Cuff width was not edited for consistency with measured arm girth for anthropometric data.

TAPE POSITIONS 420,456,457,464,465,470,471,488,489,502,507,
512,519,546,554,573,593,620,688,699,731,737,
744,779

"Blank" in these findings/ no findings fields represents participants for whom demographic data exist but for whom there is no examination data; these participants have a "1" in position 407.

"Blank but applicable" ("8") indicates a survey partially completed. This field and the range of tape positions subordinate to this field were not completed on the form; "8" is imputed in this field and the subordinate positions are left blank.

TAPE POSITION 470, 471

Ear Drum

If the auditory canal was indicated as "completely occluded", a "not visible" finding was imputed for the ear drum.

TAPE POSITION 506

Thyroid Evaluation

The World Health Organization (WHO) criteria used for grading goiter are:

Group 0: Persons without goiter. By definition, these are persons whose thyroid glands are less than 4 to 5 times enlarged.

Group 1: Persons with palpable goiters. The thyroid is considered to be more than 4 to 5 times enlarged although not visible with head in normal position. Most of these will be readily visible with the head thrown back and the neck fully extended.

Group 2: Persons with visible goiters. Persons with goiters which are easily visible with the head in normal position, but which are smaller than those in Group 3. Palpation may be helpful in determining the mass of the gland, but is not needed for diagnosis.

Group 3: Persons with very large goiters. The goiters of persons in this category can be recognized at a considerable distance. They are grossly disfigured and may be of such size as to cause mechanical difficulties with respiration and the wearing of clothes.

(Perez, C., Scrimshaw, N.S., and Munoz, J.A., Technique of endemic goitre surveys. In endemic Goitre; p. 369, see esp. p. 376, World Health Organization Monograph Series No. 44, Geneva, 1960.)

TAPE POSITION 515, 516, 517

Wheezing on auscultation

No attempt was made to correlate wheezing on auscultation and decreased breath sounds with entries in section H.6, auscultation.

TAPE POSITION 520, 525, 530, 535, 540

Chest Evaluation

If breath sounds were "absent", the description of the breath sounds were left blank.

TAPE POSITION 554

Heart Murmurs

No attempt was made to correlate the location of murmur with a type of murmur or origin of murmur.

TAPE POSITION 579

Pulse - Palpation

The form did not provide a place to record "absent palpation" in this section. Where "absent pulse" was recorded in the next question, "normal", "tortuous", or "blank" in this field were changed to a new code, "5", to indicate absent palpation.

The form does not provide any place to record missing limbs. Some observations on extremities may be missing because sample persons were amputees. Although we know that there are amputees in the sample population, the number is unknown.

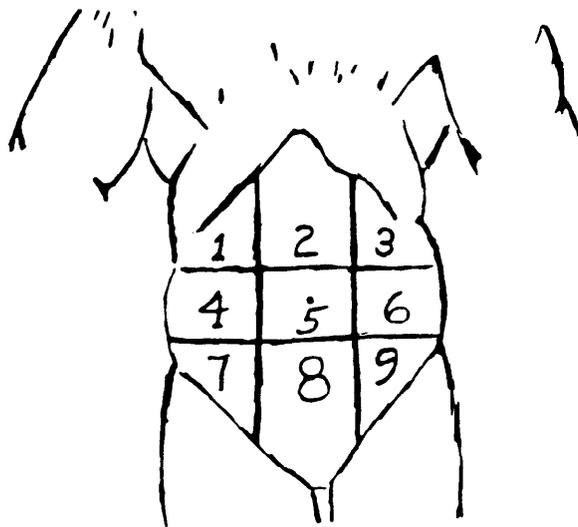
TAPE POSITION 606-610 and 613-617

Area(s) of Mass(es) -- Positions 606-610

If masses were present, the number(s) of the location(s), using the numbers on the body diagram, were recorded. The number used was the one which located the center of the mass.

Area(s) of Surgical Scar(s) -- Positions 613-617

If scars were present the number(s) of the location(s), using the numbers on the body diagram, were recorded. The number used was the one which located the center of the scar.



TAPE POSITION 762

Time - AM/PM

If this section was left blank, but a corresponding time was entered, a AM/PM value is imputed if appropriate. The rule followed is: between 12:00 and 07:00 - "PM" is imputed; between 09:00 and 11:59 - "AM" is imputed; other ranges are ambiguous, and a value of "8", blank but applicable, is entered.

TAPE POSITIONS 779-865

ICDA codes

Physicians were instructed to record their findings of abnormal conditions on the examination form and to code these using the first 3 digits of the Eighth Revision of the International Classification of Diseases, Adapted for Use in the United States. Identified conditions were coded at the end of medical examination forms. Since the examination emphasized the cardiovascular, respiratory and musculoskeletal systems, codes relating to these systems are expected to be more frequent.

V. APPENDIX A

DATA COLLECTION TECHNIQUES AND CONTENT

The plan developed with respect to the content of NHANES II called for the following:

A. QUESTIONNAIRES COMPLETED IN THE HOUSEHOLD

1. Household questionnaire: This questionnaire included for each household member items on family relationships and certain demographic variables such as age, sex, race, education, occupation, and veteran status. Also obtained were information on selected housing characteristics, family income, and an indication of the family's participation in food stamp programs.
2. Medical history questionnaires:
 - a. For each sample person 6 months-11 years of age
The questionnaire included items on birth weight, prematurity, congenital conditions, medication, neurological conditions, lead poisoning, accidents, hospital care, disability, diarrhea, pica, vision, and a variety of chronic conditions. In addition, data were collected on allergies, kidney and bladder disease, anemia, speech and hearing, lung and chest conditions and participation in food programs.
 - b. For each sample person 12-74 years of age
The questionnaire included items on medication, hospital care, tuberculosis, a variety of acute and chronic diseases, tobacco usage, physical activity, weight, height, vision disability, eating and gastrointestinal problems, and participation in food programs. Detailed data were collected on anemia, diabetes, respiratory conditions, hearing and speech, liver and gallbladder conditions, kidney and bladder disease, allergies, hypertension, cardiovascular conditions, stroke and arthritis (stressing middle and upper back and neck problems).

B. QUESTIONNAIRES ADMINISTERED IN THE MOBILE EXAMINATION CENTER

1. Dietary Questionnaires

- a. For each examined person, a 24-Hour Recall was administered by trained dietary interviewers. Specific and quantitative detail of every food or drink consumed during the previous day was recorded and calculated, thus providing estimates of calories, protein, carbohydrates, fat, unsaturated fats, cholesterol, and specific vitamins and minerals consumed.
 - b. For each examined person, a Food Frequency questionnaire was administered to ascertain usual patterns of food consumption. Daily and/or weekly consumption of foods within 26 subgroups were recorded. In addition, data were collected on usual vitamin-mineral supplement usage.
 - c. For each person 12-74 years of age, a Dietary Supplement form was self-administered and reviewed. This form provided information on special diets, recent medications and barriers to purchasing groceries or eating foods; it does not provide information on vitamin/mineral or other supplements to the diet.
2. Health History Supplement, for persons 12 through 74 years of age, included questions on cardiovascular and respiratory conditions, kidney and bladder disease, and arthritis in addition to those asked in the household Medical History. Also included were questions on pesticide exposure, smoking for persons 12 through 17 years of age, and a menstrual and pregnancy history for females.
 3. Medications/Vitamin Usage form collected information on the past week's usage of any medicines, vitamins or minerals for all examined persons.
 4. Behavior Questionnaire elicited data on behavior which may be associated with coronary heart disease for examined persons 25 through 74 years of age.

C. EXAMINATION BY PHYSICIAN

A physician performed and recorded the results of a medical examination giving special attention to specified findings related to nutrition, to hearing, to the thyroid gland, and to the cardiovascular, respiratory, neurological and musculoskeletal systems.

D. SPECIAL CLINICAL PROCEDURES AND TESTS

A specially trained health technician carried out the following on examined persons in the designated age ranges:

1. Spirometry trials of examined persons 6 through 24 years of age were digitized and recorded on magnetic tape. Various pulmonary function indicators such as FVC (forced vital capacity), FEV₁ (forced expiratory volume in one second), and peak flow rate were subsequently derived from these data.
2. Electrocardiograms were made on examined persons 25 through 74 years of age. Electrocardiographic signals were digitized and recorded on magnetic tape, providing normative data on amplitude, duration, interval and axis measurements and permitting interpretations of heart disease according to the Minnesota classification code.
3. Body Measurements were made on all examinees and included standing height or recumbent length, depending on age; body weight; triceps and subscapular skinfolds; and several other anthropometric measurements.
4. Pure tone audiometry tests were carried out on examined persons between the ages of 4 and 19 years, permitting determination of threshold levels of hearing for frequencies of 500, 1000, 2000, and 4000 Hertz for right and left ears.
5. Speech recording, involving use of tape recording of the subject's repetition of specially developed sentences, was carried out on examined persons between the ages of 4 and 6 years, permitting interpretations as an indication of problems with articulation and language development.

6. Allergy tests, involving skin tests (prick test) with eight common allergens (house dust, alternaria, cat fur, dog fur, ragweed, oak, rye grass, and Bermuda grass). The tests were made on examined persons between the ages of 6 and 74 years, to obtain degrees of skin reaction.

E. X-RAYS

For examined persons 25 through 74 years of age, two x-rays were made. No x-rays were taken of pregnant women and no lumbar x-rays were taken on women under 50 years of age.

1. X-rays of the cervical and lumbar spine were taken to provide evidence of osteoarthritis and degenerative disc disease, and an
2. X-ray of the chest was taken to be used in the diagnosis of respiratory diseases and to serve as a measure of left ventricular enlargement.

F. URINE TESTS

Tests as follows were performed on casual samples of urine:

1. N-Multistix tests for qualitative protein, glucose, ketones, bilirubin, blood, urobilinogen, pH, and bacteriuria (nitrite test) were done for examined persons 6 through 74 years of age.
2. Urinary sediments, including red cells, white cells, and casts, were measured for a subsample of examined adults 20 through 74 years of age.
3. Gonorrhea cultures of urinary sediments were performed for male and female examined persons 12 through 40 years of age. However, of those females who received the Glucose Tolerance Test (GTT), only those 20 through 24 years had the gonorrhea test performed.
4. Analyses for pesticide residue and metabolite levels were carried out on a subsample of examined persons 12 through 74 years of age, including measures of the body burdens from exposure to alkyl phosphate residues and metabolites, carbamate residues, phenolic compound residues and malathion metabolites.

G. TESTS ON BLOOD SAMPLES

Samples of blood provide a broad range of information related to health and nutrition. The particular tests performed varied with the specific target condition and age group as described on page 39 of the Series 1, No. 15 program description.⁸

1. Glucose tolerance test (GTT)

This test involved collection of blood specimens while in a fasting state as well as at one and two hours after glucose challenge. The test was performed on a subsample of examined adults 20 through 74 years of age to provide estimates of the prevalence of diabetes.

2. Tests related to liver function

- a. A post-prandial liver bile acid test was performed to measure the ability of the liver to remove bile acids from the blood. This involved consumption of a food preparation, which induces eventual addition of bile acids to the blood via contraction of the gallbladder, and subsequent collection of blood specimens.
- b. Liver biochemistries performed include bilirubin, SGOT, and alkaline phosphatase tests.

3. Anemia-related laboratory tests

The tests made to characterize anemia consisted of protoporphyrin, iron, total iron binding capacity (TIBC), zinc, copper, red cell folates, serum folates, serum ferritin, B₁₂, and the determination of abnormal hemoglobin.

4. Other nutritional biochemistries

These tests included albumin, Vitamin A, and Vitamin C.

5. Serum lipids

Because of their important relevance to cardiovascular disease, determinations were made of cholesterol, triglycerides, and high density lipoprotein (HDL).

6. Biochemistries for body burden from environmental exposures

Determinations were made of body burden levels of lead and pesticide residues and metabolites. Tests were also performed for carboxyhemoglobin which reflects environmental exposure to carbon monoxide and the individual's smoking habits.

7. Hematology

The hematology included determinations of hemoglobin, hematocrit, red blood cell count, white blood cell count and differential leukocyte analysis, and red blood cell morphology and hemoglobin phenotyping.

8. Kidney function

The only quantitative test for kidney function performed on blood samples was the serum creatinine test.

9. Syphilis

The serology determinations for syphilis included qualitative and quantitative ART, a FTA-ABS and MHA-TP.

APPENDIX B

PHYSICIAN'S EXAMINATION

General

HANES is designed to gather data for statistical analysis. Rather than have a general clinical examination performed in the manner most familiar to the examining physician, we have a physical examination structured to gather data on physical conditions pertinent to nutrition and certain chronic diseases. This section of the manual, which describes the method of performing the examination and specifies the method of recording findings, should be followed explicitly.

Other chapters of the manual (Responsibilities of Examination Staff Members, and Emergency Medical Procedures) describe the other obligations and duties of the examining physician.

Format for the Examination

Certain procedures are to be deleted on the basis of age and are indicated on the examination form.

Sitting

Blood pressure and pulse

HEENT

Hair, skin, skull, glands

Ears

Nose

Eyes

Mouth

Neck

Nodes and trachea

Chest (including heart)

Inspect

Auscult

Reclining

Heart

Inspect

Palpate

Auscult

Abdomen

Inspect

Percuss

Palpate

Arteries

Musculoskeletal

Knee

Hip
Straight leg raising

Sitting

Extremities
Lower
Upper
Neurological
DTR's
Chvostek

Standing

Inguinal Hernia
Musculoskeletal
Back
Knees

Skin

General appearance and behavior

Supine and Sitting

Blood pressure

Examination Procedure

1. *Blood pressure and pulse:* While the examinee is sitting, check his blood pressure and pulse in the right upper extremity. (Count the pulse for at least 30 seconds.)
2. *HEENT examination:* Perform a routine HEENT. Make a special note of characterizing the hair, checking the skin for seborrhea, the skull for bossing, and looking for parotid enlargement. Inspect the external ear and, with an otoscope, examine the auditory canal and tympanic membrane. Check each nostril for patency with inspiration during alternate unilateral occlusion and examine each nostril with an otoscope. Check the eyes (lids, conjunctiva, cornea) and mouth (lips, tongue, buccal mucosa) for findings linked with malnutrition and other pathology.
3. *Neck examination:* Observe the neck at rest for thyroid visibility during swallowing of small aliquots of water. Repeat with the neck extended to judge thyroid size and contour. Palpate the neck for thyroid contour and tenderness, lymph nodes, and tracheal deviation.
4. *Chest examination:* Inspect the chest paying particular attention to the skin of the upper back and to the costochondral junctions for signs attributable to malnutrition. Auscult the chest with care to cover representative areas for all lung segments.
5. *Cardiovascular examination:* While the examinee is sitting, and then when he is supine, palpate and auscult the heart. Check especially for cyanosis and venous distention. Check the peripheral pulses—note the character of the artery as well as the quality of the pulsation.
6. *Abdominal examination:* Inspect the abdomen for evidence of past surgery and for stigmata of malnutrition. During quiet respiration in the supine position, percuss the liver. Use palpation and fist percussion to elicit CVA

tenderness. With the examinee's knees and hips flexed to relax the abdominal musculature, palpate the abdomen. While he is standing erect, palpate for hernia.

7. *Musculoskeletal examination:* Examine the knees and hips for deformities and signs of inflammation, check for tenderness and for pain with active and passive motion, and perform the straight leg raising test. With the examinee seated check the legs for calf tenderness and check the extremities for evidence of arthritis and epiphyseal swelling. Also at this time check the extremities for pretibial edema, hyperpigmentation and pellagrous dermatitis, follicular hyperkeratosis, xerosis, mosaic skin, petechiae, and ecchymoses. With the examinee standing check the cervical, thoracic, and lumbar spine for deformities, limited range of motion, and pain with motion by having the examinee flex, extend, laterally bend, and rotate the spine. Check for sciatic notch and sacro-iliac tenderness. With the examinee bending forward (as in touching toes) check for exacerbation or relief of scoliosis (including rotary component). While the examinee is standing, again check the knees for deformities (and the legs for varicosities).
8. *Neurological examination:* While the examinee is seated test for knee jerks, ankle jerks, and facial spasm (Chvostek sign).
9. *Dermatological examination:* Check the skin regionally during the other parts of the examination as described previously—see "Folder I" on the trailer for illustrations of findings linked with malnutrition.
10. *General appearance and behavior:* Take special note of the general appearance and behavior of the examinee which might reflect organic or functional disorders (e.g., endocrine imbalance, chromosomal disorders, psychosis) which would confound evaluation of nutritional status or reflect malnutrition.
11. *Blood pressure:* At the close of the physician's examination the blood pressure should be taken while examinee is both in the supine and sitting positions.

Recording of Findings

The examination forms contain spaces for structured responses, open ended responses, and summaries of diagnostic impressions. Since the structured responses will be used for computer analysis, certain criteria for and/or definitions of these responses will be given below to insure comparability of data collected by numerous physicians. The open ended responses are for recording both common and rare findings (which have not been put into structured form because of rarity or secondary importance to the goals of the survey) so that a more complete medical record will be available if information beyond the structured responses is needed in the future. The summary and diagnostic impressions allows a reviewer to quickly synthesize the physician's findings on a given examinee and to ascertain the physician's subjective as well as objective evaluations.

Unless otherwise noted in the instructions, positive responses should be recorded with checks in the appropriate boxes. A correction should be made by circling the response to be negated and checking the correct box.

Either the "Findings" or "No findings" box should be checked when they occur. If there are no findings for any section of the examination, check the "No findings" box; if there are findings check the "Findings" box as well as the individual boxes for whatever findings there are.

The letters "R" or "Rt.," "L" or "Lt.," and "B" mean right, left, and both, respectively.

At the end of the chart are forms for reporting findings to physicians. Record there any significant medical findings which need to be reported to a physician or check the box to indicate that there are no significant new medical findings to be reported.

Criteria and Definitions

1. *Pulse and blood pressure:*

Record the pulse as the number of radial pulsations per minute and the systolic and diastolic blood pressure in even digits to the nearest 2 mm. pressure.

2. HEENT

- a. *Dry staring hair:* Dry, wirelike, unkempt, stiff, and often brittle hair which sometimes may exhibit some bleaching of the normal color.
- b. *Dyspigmented hair:* Definite change from normal pigment of the hair, most usually evident and best seen by carefully combing hair strands upward and viewing the orderly array of hair in good light. Dyspigmentation includes both change of pigment (usually lightening of color) and depigmentation—not to be confused with dyed or tinted hair. Dyspigmentation is always bandlike in character and is usually associated with some change in texture of hair in the dyspigmented band. In some ethnic groups, particularly Negroid groups, the pigment may be slightly reddish in color. In others, especially among straight black-haired peoples, the bandlike depigmentation ("flag sign") is common. Dyspigmentation is only rarely observed in adults.
- c. *Easily pluckable hair:* A condition in which the shafts of hair are readily removed with a minimal tug when a few strands are grasped between the finger and thumb and gently pulled. In such cases there is no reaction from the child, indicating a lack of pain associated with removal of the hair.
- d. *Abnormal texture or loss of curl:* Changes in texture of the hair to a soft, silklike hair. Loss of curl is self-explanatory.
- e. *Circumcorneal injection (bilateral):* Increase in vascularity by new ingrowth of capillary loops, with particular concentration around the cornea in the absence of obvious causes other than nutrition.
- f. *Conjunctival injection (bilateral):* Generalized increase in the vascularity of the bulbar conjunctivae in the absence of obvious infection.
- g. *Angular blepharitis:* A fissure located in the lateral palpebral angle of the eyelids which presents as a crack in the epidermis similar to the cracks found at the angles of the mouth in angular stomatitis.
- h. *Pupils and Iris:* Irregularity of pupil contour.
 - i. *Xerosis (conjunctivae):* The conjunctivae, upon exposure when holding the examinee's lids open and having the examinee rotate his eyes, appear dull, lusterless, and exhibit a striated or roughened surface.
 - j. *Lesions of cornea (other):* Use oblique moving illumination with small flashlight to look for opacities, surface debris, deposits in the anterior chamber and cataract.
 - k. *Bitot's spots:* Small circumscribed, grayish or yellowish-gray, dull, dry,

foamy, superficial lesions of the conjunctivae. Seen most often at the lateral aspect of the bulbar conjunctivae of children. Usually bilateral. Not to be confused with pterygium.

- l. *Keratomalacia*: Corneal softening with deformity, either localized (usually central part of lower half of cornea) or total.
- m. *Xerophthalmia*: Xerophthalmia is recorded when the bulbar conjunctiva and cornea are dry and lusterless with a decrease in lacrimation. It is rarely associated with evidence of infection but in extreme cases is associated with keratomalacia.
- n. *Lids and Sclera*: Lid edema, lid infection, and ptosis.
- o. *Angular lesions of lips*: Record only if definitely present bilaterally when the examinee's mouth is held half open. May appear as pink or moist, whitish, macerated, angular lesions which blur the mucocutaneous junction. Angular lesions are recorded only when there is definite break in continuity of epithelium at the angles of the mouth.
- p. *Angular scars of lips*: Scars at the angles which, if recent, may be pink; if old, may appear blanched.
- q. *Cheilosis*: Different from ordinary chapping. The lips are swollen or puffy and appear as if the buccal mucosa extends out onto the lip. There may be desquamation. This category may be used to include vertical fissuring of the lips. If associated with herpes labialis, note under "Other findings."
- r. *Filiform papillary atrophy of tongue*: The filiform papillae are exceedingly low or absent, giving the tongue a smooth or "slick" appearance which remains after scraping slightly with an applicator stick.
- s. *Fungiform papillary hypertrophy of tongue*: The fungiform papillae can be seen and felt when a tongue blade is drawn lightly over the anterior two-thirds of the tongue.
- t. *Geographic tongue*: Irregularly outlined and distributed areas of atrophy with irregular white patches resembling leukoplakia.
- u. *Fissures of tongue*: Linear lesions or cracks with a definite break in the continuity of the epithelium.
- v. *Serrations or swelling of tongue*: Tooth impressions at sides of tip, often noted when tongue is swollen.
- w. *Scarlet, beefy tongue*: Entire tongue is red, angry in appearance, with or without denudation or fissures. Not just a modification of the natural color due to the loss of papillae. Associated almost always with subjective symptoms of hypersensitivity, burning, and even taste changes.
- x. *Magenta tongue*: A tongue the color of alkaline phenolphthalein.
- y. *Nasolabial seborrhea*: A definite greasy, yellowish scaling or filiform excrescences in the nasolabial area which become more pronounced on slight scratching with the fingernail or a tongue blade.
- z. *Visible enlarged parotids*: Due to difficulties in assessing parotid enlargement, record as positive the presence of bilateral enlargement only if clearly visible.
- aa. *Bossing of skull*: Record abnormal prominence or protrusion of frontal or parietal areas.

3. Thyroid evaluation

The World Health Organization (WHO) criteria used for grading goiter are:

Grade 0: Persons without goiter. By definition these are persons whose thyroid glands are less than 4 to 5 times enlarged.

Grade 1: Persons with palpable goiters. The thyroid is considered to be more than 4 to 5 times enlarged although not visible with head in normal position. Most of these will be readily visible with the head thrown back and the neck fully extended.

Grade 2: Persons with visible goiters. Persons with goiters which are easily visible with the head in normal position, but which are smaller than those in

Grade 3. Palpation may be helpful in determining the mass of the gland but is not needed for diagnosis.

Grade 3: Persons with very large goiters. The goiters of persons in this category can be recognized at a considerable distance. They are grossly disfigured and may be of such a size as to cause mechanical difficulties with respiration and the wearing of clothes. (Perez, C., Scrimshaw, N.S., and Munoz, J.A.: Technique of endemic goitre surveys. In endemic Goitre; p. 369, see esp. p. 376, World Health Organization Monograph Series No. 44, Geneva, 1960.)

Other thyroid findings: Record any tenderness, nodularity, enlargement of the isthmus, or other abnormal thyroid findings not included in grading thyroid size.

4. Chest evaluation:

- a. *Beading of ribs:* A definitely palpable and visible enlargement of the costochondral junctions.
- b. *Follicular hyperkeratosis of upper back.* This lesion has been likened to "gooseflesh" which is seen on chilling, but it is not generalized and does not disappear with brisk rubbing of the skin. Readily felt, it presents a "nutmeg grater" feel. Follicular hyperkeratosis is more easily detected by the sense of touch than by the eye. The skin is rough, with papillae formed by keratotic plugs which project from the hair follicles. The surrounding skin is dry and lacks the usual amount of moisture or oiliness. Differentiation from adolescent folliculosis can usually be made by recognition of the normal skin between the follicles in the adolescent disorder. Follicular hyperkeratosis is distinguished from perifolliculosis by the ring of capillary congestion which occurs about each follicle in scorbutic perifolliculosis.
- c. *Wheezing on auscultation:* Record any wheezing, inspiratory or expiratory, as focal or diffuse.
- d. *Decreased breath sounds:* Record if there is diffusely decreased breath sounds. (Focal or discrete areas of decreased breath sounds should be recorded under "Other findings.")
- e. *Breast Masses:* Palpate in both upright and supine positions. If a mass is found, characterize with regard to location, size, contour, consistency, tenderness and mobility.

5. Cardiovascular evaluation:

- a. *Cyanosis:* Record definite cyanosis which is thought to be related to generalized hemoglobin desaturation. (Focal phenomena, e.g., one extremity cyanotic should be recorded under "Other findings.")
- b. *Irregular pulse:* Record any irregularities of pulse except physiological variations.

- c. *Cardiac murmur*: Record all murmurs. Grade, location, radiation, and any other pertinent description should be given as well as an opinion as to the origin of the murmur.

6. Abdominal evaluation:

- a. *Hepatomegaly*: Record livers palpable 2 centimeters or more below the right costal margin.
- b. *Splenomegaly*: Record all palpable spleens.
- c. *Uterine enlargement*: Record all enlarged uteri including those enlarged secondary to pregnancy.
- d. *Umbilical hernia*: Record all umbilical hernias. If a hydrocele is present write it in under "Summary of Diagnostic Impressions" with its ICDA code.
- e. *Inguinal and femoral hernias*: Record all hernias and note next to boxes if bilateral.
- f. *Potbelly*: Record if abdomen appears abnormally distended and enlarged with due recognition of the usual contour of the young child.
- g. *Masses*: If masses are present, check box 287. Record the number(s) of the location(s) (see diagram for number of locations) of the mass(es) to the right of 288. Use the number which locates the center of the mass. Check box 289 and write in a description of the masses, identify each by its number location, e.g., (7) 3 cm. diameter firm, fixed, nontender.
- h. *Scars*: If scars are present, check box 290. Record the number(s) of the location(s) of the scar(s) to the right of 291. Use the number which locates the center of the scar. Check box 292 and write in a description of the scars, identifying each by its number location, e.g., (7) 3 cm well-healed appendectomy scar.

7. Musculoskeletal evaluation:

- a. *Bowed legs (genu varum)*: Bilateral concave deformities of the thighs and tibiae should be recorded, even if mild.
- b. *Knock knees (genu valgum)*: Bilateral convex deformities of the knees and tibiae should be noted only if marked.
- c. *Epiphysial enlargement of wrists*: This can be more easily felt than seen and should be recorded, particularly if present at the ulnar epiphysis.
- d. *Ortolani's maneuver*: With the infant lying supine, the examiner straightens and adducts the legs. The examiner's thumb rests along the inside and the other fingers extend along the outside of the infant's thigh. The hips and thighs are flexed to 90° and one leg is then abducted with the examiner's fingers gently pressing the trochanter of the femur upward and forward. The normal hip in a relaxed infant can be abducted to almost 90°. If dislocation is present resistance may be felt between 45° and 60° and a click felt as the dislocated femoral head slips into the acetabulum.

8. Neurological evaluation

- a. *Absent knee jerks*: Record bilaterally absent knee jerks—unilateral absence should be described under "Other findings."
- b. *Absent ankle jerks*: Record bilaterally absent ankle jerks—unilateral absence should be described under "Other findings."
- c. *Positive Chvostek sign*: When in tapping the malar process of the temporal bone on both sides of the face with a percussion hammer, a twitching of

the perioral muscles of the same side is elicited, this is a positive Chvostek sign. A positive sign indicates hyperirritability of the neuromuscular system as found in spasmophilia (tetany) due to calcium deficiency.

- d. *Apathy*: This should be noted and recorded if it is marked, particularly in young children. It has importance in relation to protein-calorie deficiency (PCD).
- e. *Marked hyperirritability*: This refers to behavior (not to reflexes) and should be recorded only if marked.

9. Skin evaluation

- a. *Follicular hyperkeratosis, arms*: See 4b.
- b. *Hyperpigmentation, hands and face*: Asymptomatic with no inflammatory component. It is seen most frequently on the dorsum of the hands and lower forearms, particularly when skin hygiene is poor. The skin is rough, dry, and often has a grayish, cyanotic base. There is not the sharp line of demarcation at the border of the lesion such as one sees in pellagra.
- c. *Dry or scaling skin (xerosis)*: Xerosis is a clinical term used to describe a dry and crinkled skin which is made more obvious by pushing the skin parallel to the surface. In more pronounced cases it is often mottled and pigmented and may appear as scaly or alligator-like pseudoplaques, usually not greater than 5 mm in diameter. The nutritional significance of it is not established. Differential diagnosis must be made between this condition and changes due to dirt, exposure, and ichthyosis.
- d. *Perifolliculosis*: Congestion around the follicles which does not blanch upon pressure. (See discussion of follicular hyperkeratosis above.) There is an early ring of capillary engorgement around some hair follicles which does not disappear on pressure. It is more frequently encountered on the dependent parts such as the legs. Swelling and hypertrophy of the follicles may occur, at which time the skin becomes rough. Follicular hyperkeratosis and perifolliculosis may coexist.
- e. *Petechiae*: Record petechiae which you as a physician judge to be due to abnormalities of the examinee. Do not record normal responses to minor trauma as positives. Qualify by describing distribution and severity, e.g., minimal pigmented purpuric eruption on the legs. If deemed contributory, a tourniquet test may be performed on the upper extremity with the blood pressure cuff adjusted between systolic and diastolic pressures for 5 minutes, and the results described.
- f. *Mosaic skin*: This is usually found on the lower legs and constitutes a dry, atrophic alteration of the skin with a mosaic-like pattern and a certain luster of the surface. It is associated with conditions where the superficial layers of the skin are subject to stretching (increased tension) due to underlying edema, e.g., in protein deficiency.
- g. *Pellagrous dermatitis*: Areas of dry dermatitis-like lesions on the dorsal surface of hands, cheeks, forehead, and if exposed on the neck (Casals necklace).
- h. *Ecchymoses*: Record ecchymoses which you as a physician judge to be due to abnormalities of the examinee. Do not record normal minor responses to known minor trauma.

10. Examiner's subjective impression of nutritional status:

This will be the examining physician's subjective appraisal of the state of

nutrition of the examinee. Indicate whether or not you judge the examinee to have "normal nutrition" or "abnormal nutrition." Obesity is considered to be "abnormal nutrition."

11. External ear:

Record if the ears are pierced. Check "Operative scar" only for mastoid operation scars. Check and write under "other" additional findings which are significant cosmetically and/or which might impair hearing.

12. Auditory canal:

Check "Completely occluded" if there is not sufficient tympanic membrane visible to characterize the membrane under "Drum" (below), and check as "Partially occluded" all other cases in which there is obstruction of or protrusion into the auditory canal. For all positive responses check the cause of the obstruction; write cause under "Other" for causes other than cerumen.

13. Drum:

Check "Not visible" only if "Completely occluded" is checked above. Check as many structured responses as apply in the description of the membrane, e.g., dull, bulging, and fluid may all be checked under R ear. However, do not check two responses for one code number. If the membrane is perforated, check either "With discharge" or "Without discharge." Check "Other" and write in a description if the structured responses need to be supplemented.

14. Nares:

Check "Acute" or "Chronic" if the naris is obstructed (use physical appearance plus history to judge if obstruction is acute or chronic). Check as many responses under "Other significant findings" as are necessary to describe the nares.

Nasal Polyps—These are soft, smooth, pale, movable tumors usually multiple.

15. Neck:

Check "Adenopathy," "Tracheal deviation," or "Other (describe)" to describe significant clinical findings (except thyroid) in the neck.

16. Chest:

In the structured response chart check the columns corresponding to the observed abnormalities at the levels of the lobes over which the findings are observed. (If needed, see diagrams present in the MEC for normal distribution of pulmonary segments and lobes.) Other auscultatory findings, and findings on inspection, percussion, or palpation should be checked and written in under "Other chest findings."

17. Heart:

- a. *PMI*: Check whether the PMI is "Felt" or "Not felt." If felt, check the number of the closest interspace and check the relationship to the mid-clavicular line.
- b. *Thrills*: Check whether a thrill is "Absent" or "Present." If present, check systolic and/or diastolic to time the thrill, and check either base or apex to

ocate the maximum intensity of a given thrill. For multiple thrills, record only the most intense one.

- c. *Heart sounds*: Check the structured response which best describes the first heart sound and the one which best describes the second heart sound.
- d. *Murmurs*: Check "None" if no murmurs are heard. If a murmur or murmurs are heard, place checks under the appropriate period—systolic and/or diastolic—to indicate the timing when categorizing by type and location of the murmur(s) or the component(s) of murmur(s) within each period—systolic and diastolic. When typing systolic murmurs, check "Organic" if any systolic murmur or systolic component of a murmur is thought secondary to a cardiovascular lesion; and check "Functional" if no systolic murmur or systolic component of a murmur is thought secondary to a cardiovascular lesion. Check "Don't know" only if a reasonable clinical judgment cannot be made. Follow the same guidelines for typing diastolic murmurs. Note that "Functional," "Organic," and "Don't know" are to be considered mutually exclusive responses within each period (systole, diastole). In locating and grading a murmur, record the grade of the murmur by checking the grade as judged at its point of maximum intensity in the appropriate period column to the right of the structured location response which best approximates the location of its point of maximum intensity. Unless there are both systolic and diastolic components to a murmur, check only one grade-location response for each murmur; for multiple murmurs make multiple responses. (However, there should be only one response at a given location within a given period.) To locate the origin of each murmur or component thought secondary to a cardiovascular lesion ("Organic" will have been checked), check in the appropriate period column (systolic, diastolic, or both) to the right of the location of the cardiovascular lesion thought to be the origin of the murmur; e.g., for pulmonic stenosis check to the right of 254 in the box numbered 1. Make multiple responses for multiple murmurs of "Organic" origin. Check "Other" if the location of other than 251–256 and check "Don't know" if the murmur is thought to be organic but a reasonable clinical judgment of the origin cannot be made.
- e. *Other cardiac and cardiovascular findings*: If there are significant cardiac or cardiovascular findings for which there are no other appropriate responses in either the heart or arterial evaluation sections, check "Yes" and then check the structured or open ended (under "Other") response which applies. Check "No" if this space is not needed to describe cardiac or cardiovascular findings.

18. Arterial evaluation:

Check the structured response ("Normal," "Sclerotic," "Tortuous," or "Sclerotic and Tortuous") which best characterizes each artery listed, and check the structured response ("Normal," "Bounding," "Diminished," or "Absent") which best characterizes each pulse listed. If the dorsalis pedis pulse is absent and the posterior tibial pulse is present, check "Absent" for dorsalis pedis and write in "posterior tibial" after "Other" and check its character. If the dorsalis pedis and posterior tibial pulses are both absent, check "Absent" for dorsalis pedis and write in "popliteal" after "Other" and check the character of the popliteal pulse.

19. Joints:

To record findings in joints, locate the box for the finding to be recorded (i.e., tender, swelling, deformity, limitation, Heberden's nodes, pain on motion, other) and the joint involved. Within the box check right, left, or both to indicate the location of involvement for shoulder, elbow, wrist, ankle, feet, knees, and hips and check the total number of digits involved on each side for the MP and DIP joints. Check the total number of digits involved on the right and on the left for each finding (note this is the total number of digits involved and not the digit involved).

- a. *Back*: Check the described deformities if observed; check the location of any tenderness or limitation of motion. If there is pain with motion, check the location at the right of the motion which elicits the pain—"diffuse" should be checked if all three locations (cervical, thoracic, low back) are involved, but do not check thoracic or low back in these instances. "Uncertain" should be checked if pain occurs but the site cannot be specified. The severity of pain in flexion and extension of the neck is graded 0-none, 1-doubtful, 2-minimal, 3-moderate, and 4-maximum. If there is limitation of motion on flexion of the lumbar spine, check box M4c(368) and describe as limitation of flexion, lumbar spine.
- b. *Straight leg raising*: For the SLR test, check negative or positive for both the right and the left. Also, for "Increase with dorsiflexion," check either "Yes" or "No" for both the right and left.

20. Other systems:

Record here system findings which cannot be noted in other parts of the form, e.g., Reticuloendothelial—marked inguinal and axillary adenopathy plus cervical adenopathy, pallor, and petechiae previously noted. But if only petechiae and cervical adenopathy were observed, they would have previously been recorded and need not be recorded here.

21. Blood pressure:

Record the systolic and the diastolic blood pressures to the nearest even digit for both the recumbent and the sitting positions and note the time to the nearest minute of the determination.

22. Summary of diagnostic impressions

On the last page of the physical examination recording form under the heading "Summary of Diagnostic Impressions" findings should be summarized. Diagnostic impressions may be on the basis of physical exam, history, X-ray, laboratory findings, etc. Certainly not all findings should be listed, but those deemed significant in relation to disease or certain condition states should be listed. However, in order to facilitate data processing all entries under other categories should be listed and given ICD codes. It is preferable to summarize findings by condition such as "osteoarthritis" rather than by listing symptoms or signs. After completing the examination, indicate whether the examinee is "normal" or "abnormal." If abnormal, summarize findings according to the directions briefly outlined above. Cardiovascular (including venous disease), musculoskeletal, and respiratory findings should be listed in their appropriate sections with other findings below.

Following each such listing, indicate the seeming severity of each, checking whether it appears to be either minimal, moderate, or severe. This will be strictly subjective and based on your own appraisal. Should there arise some difficulty in deciding between two of the possible classifications, the lesser of the two should be selected.

Then indicate the certainty of the diagnosis using a scale ranging from 0 to 9 according to the following criteria:

- 0-not at all certain
- 2-little bit certain
- 4-somewhat certain
- 6-fairly certain
- 8-very certain
- 9-extremely certain

The range is continuous and any number representing a degree of certainty between two of the listed scale numbers may be selected. When selected, the number should be written in the appropriate space.

Each condition should finally be coded according to the *Eighth Revision International Classification of Diseases, Adapted for Use in the United States*, which has been modified for use in HANES. A complete listing of these HANES modified codes are kept in each caravan. Since the vast majority of examinees with findings will have one or more of a small number of common conditions, the more probable conditions with the appropriate code numbers are listed below:

Modified ICDA Codes for Use in HANES

- I. Infective and Parasitic Disease (000-136)
 - 011.X Pulmonary Tuberculosis
 - 044.X Polio, Late Effects of
 - 111.0 Tinea Versicolor
- II. Neoplasms (140-239)
 - See specific Neoplasms as classified
 - 214.X Lipoma
 - 227.0 Hemangioma of Skin
- III. Endocrine, Nutritional and Metabolic Diseases (240-279)
 - 240.X Simple Goiter
 - 241.X Nontoxic Nodular Goiter
 - 242.X Hyperthyroidosis (Hyperthyroidism) with or without Goiter
 - 243.X Cretinism
 - 244.X Hypothyroidism (acquired)
 - 250.X Diabetes Mellitus
 - 274.X Gout
 - 277.X Obesity not specified as of Endocrine Origin
- IV. Diseases of Blood and Blood Forming Organs (280-289)

- 280.X Iron Deficiency Anemias
- 282.X Hereditary Hemolytic Anemias including Sickle Cell Disease
- 287.X Purpura and other Hemorrhagic Conditions

V. Mental Disorders (290-315)

- 295.X Schizophrenia
- 296.X Affective Psychoses
- 300.X Neuroses
- 303.X Alcoholism
- 309.X Mental Disorders not specified as Psychotic; associated with Physical Conditions; includes Brain Syndrome
 - 309.2 Due to Brain Trauma
 - 309.3 Due to Circulatory Disturbance
 - 309.6 Due to Senile or Presenile Brain Disease

VI. Diseases of the Nervous System and Sense Organs (320-389)

- 324.X Meningitis or Encephalitis, late effects of
- 342.X Paralysis Agitans (Parkinson's Syndrome)
- 343.X Cerebral Spastic Infantile Paralysis
- 344.X Other Cerebral Paralysis
 - 344.1 Hemiplegia
- 345.X Epilepsy
- 346.X Migraine
- 350.X Facial Paralysis
- 353.X Neuralgia or Neuritis of Sciatic Nerve
- 360.X Conjunctivitis and Conjunctival Infection
- 367.X Retinitis
- 373.X Strabismus
- 374.X Cataract
- 375.X Glaucoma
- 377.0 Vascular Lesions of Retina
 - 377.1 Degeneration of Retina
- 379.X Blindness
- 380.X Otitis Externa
- 381.X Otitis Media without Mastoiditis
- 382.X Otitis Media with Mastoiditis

VII. Diseases of Circulatory System (390-458)

- 394.X Disease of Mitral Valve
- 395.X Disease of Aortic Valve
- 401.X Essential Benign Hypertension
- 402.X Hypertensive Heart Disease
- 403.X Hypertensive Renal Disease
- 412.X Chronic Ischemic Heart Disease
- 413.X Angina Pectoris
- 427.0 Congestive Heart Failure
 - 427.3 Heart Block
 - 427.4 Atrial Fibrillation or Flutter
 - 427.9 Other and Unspecified Disorders of Heart Rhythm (Other than PAT, AF, VF, Heart Block)
- 429.0 Cardiac Enlargement and Hypertrophy

- 436.X Stroke
- 440.X Arteriosclerosis
- 443.0 Raynaud's Syndrome
- 443.9 Intermittent Claudication, PVD, not otherwise specified
- 451.X Phlebitis and Thrombophlebitis
- 454.0 Varicose Veins, with Ulcer
- 454.1 Varicose Veins, with Stasis Dermatitis without Ulcer
- 454.9 Varicose Veins other, without Ulcer
- VIII. Disease of Respiratory System (460-519)
 - 460.X Cold
 - 461.X Acute Sinusitis
 - 462.X Acute Pharyngitis
 - 463.X Acute Tonsillitis
 - 464.X Acute Laryngitis and Tracheitis
 - 465.X URI of unspecified or multiple site
 - 466.X Acute Bronchitis
 - 491.X Chronic Bronchitis
 - 492.X Emphysema
 - 493.X Asthma
 - 500.X Hypertrophy of Tonsils and Adenoids
 - 504.X Deviated Nasal Septum
 - 505.X Nasal Polyp
 - 507.X Hay Fever
 - 507.1^b Allergic Rhinitis
- IX. Disease of Digestive System (520-577)
 - 529.1 Geographic Tongue
 - 533.X Peptic Ulcer, site unspecified
 - 550.X Inguinal Hernia not obstructed
 - 551.0 Femoral Hernia not obstructed
 - 551.1 Umbilical Hernia not obstructed
 - 551.3 Diaphragmatic Hernia, not obstructed
 - 564.1 Irritable Colon
 - 571.X Cirrhosis of Liver
 - 573.0 Hepatitis, not otherwise specified
 - 574.1 Cholelithiasis with Cholecystitis or Cholangitis (chronic)
 - 574.9 Cholelithiasis without Cholecystitis or Cholangitis
 - 575.X Cholecystitis, without mention of Calculus
- X. Diseases of the Genitourinary System (580-629)
 - 590.0 Chronic Pyelonephritis
- XI. Complications of Pregnancy, Childbirth and the Puerperium (630-678)
- XII. Diseases of the Skin and Subcutaneous Tissue (680-709)
 - 680.X Boil and Carbuncle
 - 684.X Impetigo
 - 690.X Seborrhic Dermatitis
 - 691.X Atopic Dermatitis, Infantile Eczema, Neurodermatitis

^bThis is an artificial code not included in the ICDA codes.

- 692.X Contact Dermatitis
- 695.2 Erythema Nodulum
- 696.X Psoriasis
- 706.1 Acne Vulgaris
- 708.9 Hives
- 709.9 Intertrigo, Vitiligo

XIII. Diseases of the Musculoskeletal System and Connective Tissue (710-738)

- 712.X Rheumatoid Arthritis
- 713.0 Osteoarthritis
- 714.0 Traumatic Arthritis
- 715.X Arthritis, unspecified
- 717.9 Fibrositis, Myalgia, Myositis
- 718.X Rheumatism, unspecified
- 725.0 Displaced Cervical Intervertebral Disc
- 725.1 Displaced Lumbar and Lumbosacral Intervertebral Disc
- 728.0 Pain in Neck
- 728.7 Low Back Pain
- 730.X Bunion
- 731.X Synovitis or Bursitis
- 735.0 Scoliosis
- 735.1 Kephosis
- 736.X Flat Foot

XIV. Congenital Anomalies (740-759)

- 752.1 Undescended Testicle
- 756.4 Pectus Excavatum
- 757.4 Congenital Clubnail

Miscellaneous

- 780.3 Abnormal Involuntary Movements (Atheosis, Tremor)
- 780.4 Disturbance of Coordination (Ataxia, Muscular Incoordination)
- 989.X Insect Bites

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